DEPARTMENT OF THE ARMY

Procurement Programs





DIIC QUALITY INSPROTED 2

Committee Staff Procurement Backup Book FY 1999 Amended Budget Estimates **WEAPONS AND TRACKED COMBAT VEHICLES**

February 1998

APPROPRIATION

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Appropriation: **WEAPONS & TRACKED COMBAT VEHICLES**

Activity: 1. **TRACKED COMBAT VEHICLES**

| | | T | (DOLS) | | | (Thouse | (Thousands of Dollars) | | |
|-----|--|-----|---------------|---------------------------------------|---------|-------------|------------------------|---|---------|
| NO. | ITEM NOMENCLATURE | ₽ | FY 99 UNIT | | FY 97 | | FY 98 | | FY 99 |
| | | | COST | QTY | COST | QTY | COST | QTY | COST |
| (1) | (2) | (3) | (4) | (2) | (9) | (2) | (8) | (6) | (10) |
| | **TRACKED COMBAT VEHICLES** | | | | | | | | |
| - | ABRAMS TRNG DEV MOD (GA5208) | | | | 3,170 | | 2,176 | | 8,536 |
| 0 | BRADLEY BASE SUSTAINMENT (G80718) | Ø | | | 250,920 | | 231,043 | | 285,844 |
| ო | BRADLEY FVS TRAINING DEVICES (G20900) | ∢ | | | 571 | | | | 12,728 |
| 4 | HAB TRAINING DEVICES (G84600) | | | | | | | | 386 |
| ស | BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500) | ∢ | | | 848 | | | | 2,075 |
| 9 | FIELD ARTILLERY AMMUNITION SUPPORT VEH (G80100) | ∢ | | 48 | 58,314 | 36 | 39,179 | | |
| 7 | ABRAMS TANK TRAINING DEVICES (GB1300) | ∢ | | · · · · · · · · · · · · · · · · · · · | 12,546 | | 13,076 | *************************************** | 13,411 |
| œ | COMMAND & CONTROL VEHICLE (G84200) | ۵ | 4,424,100 | ις | 48,766 | G | 30,262 | 10 | 44,241 |
| | SUB-ACTIVITY TOTAL | | | | 375,135 | | 315,736 | | 367,221 |
| | **MODIFICATION OF TRACKED COMBAT VEHICLES** | | | | | | | | |
| စ | CARRIER, MOD (GB1930) | ∢ | | | 44,717 | | 39,418 | | 54,454 |
| 9 | FIST VEHICLE (MOD) (GZ2300) | 8 | | | | | 15,595 | | 20,720 |
| Ξ | BFVS SERIES (MOD) (GZ2400) | ∢ | | | 113,618 | | 59,974 | | 58,998 |
| | | | | | | , | | | |

Appropriation: **WEAPONS & TRACKED COMBAT VEHICLES**

Activity: 1. **TRACKED COMBAT VEHICLES**

| | | | (DOLS) | | | (Thouse | (Thousands of Dollars) | | |
|-----|--|-----|---------------|-----|-------------------------|---------|------------------------|-----|---------------------|
| NO. | ITEM NOMENCLATURE | 0 | FY 99 UNIT | | FY 97 | | FY 98 | | FY 99 |
| | | | COST | QTY | COST | QTY | COST | ΩTY | COST |
| (1) | (2) | (3) | (4) | (2) | (9) | (2) | (8) | (6) | (10) |
| 5 | HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400) | ∢ | | | 95,410 | | 72,784 | | 11,339 |
| 13 | HOWITZER, MED SP FT 155MM M109A5 (MOD) (GA0401) | 4 | | | 130 | | | | |
| 41 | FAASV PIP TO FLEET (GA8010) | ٧ | | | 23,510 | | 1,883 | | 3,157 |
| 15 | IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570) | ∢ | | | 55,529 | | 31,922 | | 38,175 |
| 16 | HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250) | ω | | | 51,401 | | 41,311 | | 50,401 |
| 11 | ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000) | ∢ | | | | | | | 696 |
| 18 | M1 ABRAMS TANK (MOD) (GA0700) | ∢ | | | 62,934 | | 29,230 | | 53,301 |
| 19 | ABRAMS UPGRADE PROGRAM (GA0750) LESS: ADVANCE PROCURMENT (PY) | ∢ . | | | 501,046 -297,218 | | 586,799 -258,171 | | 666,195 -253,534 |
| | | | | | 203,828 | | 328,628 | | 412,661 |
| 20 | ABRAMS UPGRADE PROGRAM (GA0750) ADVANCE PROCUREMENT (CY) | | | | 258,171 | · | 253,534 | | 262,942 |
| 2 | MODIFICATIONS LESS THAN \$2.0M (TCV-WTCV) (GA0925) | | | | | | 1,009 | | |
| | SUB-ACTIVITY TOTAL | | | | 909,248 | | 875,288 | | 967,117 |
| | | | | | | | | | |

Appropriation: **WEAPONS & TRACKED COMBAT VEHICLES**

Activity: 1. **TRACKED COMBAT VEHICLES**

| | | | (DOLS) | | | (Thous | (Thousands of Dollars) | | |
|-----|---|-----|---------------|-----|-----------|--------|------------------------|-----|-----------|
| NO. | ITEM NOMENCLATURE | ٥ | FY 99 UNIT | | FY 97 | | FY 98 | | FY 99 |
| | | | COST | QTY | COST | QΤΥ | COST | QTY | COST |
| (1) | (2) | (3) | (4) | (2) | (9) | (2) | (8) | (6) | (10) |
| | **SUPPORT EQUIPMENT AND FACILITIES** | | | | | | | | |
| 22 | ITEMS LESS THAN \$2.0M (TCV-WTCV) (GL3100) | _ | | | Ξ | | 136 | | 132 |
| 23 | PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050) | | | | 9,286 | | 8,758 | | 8,861 |
| 24 | REGIONAL MAINTENANCE TRAINING SITES-EQUIP (GA2449) | | | | 1,362 | | | | |
| | SUB-ACTIVITY TOTAL | | | | 10,659 | | 8,894 | | 8,993 |
| | ACTIVITY TOTAL | | | | 1,295,042 | | 1,199,918 | | 1,343,331 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

DEPARTMENT OF THE ARMY FY 99 PROCUREMENT PROGRAM

Appropriation: **WEAPONS & TRACKED COMBAT VEHICLES**

Activity: 2. "WEAPONS AND OTHER COMBAT VEHICLES"

| | | | (DOLS) | | | (Thousa | (Thousands of Dollars) | | |
|------------|--|-----|---------------|--------|--------|---------|------------------------|--------|--------|
| LINE NO | ITEM NOMENCLATURE | ٥ | FY 99 UNIT | | FY 97 | | FY 98 | | FY 99 |
| | | | COST | QTY | COST | QTY | COST | QTY | COST |
| (1) | (2) | (3) | (4) | (2) | (9) | (7) | (8) | (6) | (10) |
| | **WEAPONS AND OTHER COMBAT VEHICLES** | | | | | | | | |
| 25 | ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000) | ∢ | 9,652 | 2,034 | 20,291 | 1,500 | 14,692 | 673 | 6,496 |
| 56 | MACHINE GUN, 5.56MM (SAW) (G12900) | ∢ | 2,946 | 3,802 | 12,050 | 406 | 5,455 | 1,525 | 4,494 |
| 27 | GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400) | ∢ | 17,490 | 2,150 | 32,972 | 400 | 7,835 | 269 | 12,191 |
| 28 | M16 RIFLE (G14900) | ∢ | 425 | 15,583 | 6,523 | 11,297 | 4,984 | 16,067 | 6'859 |
| 29 | 5.56 CARBINE M4 (G14904) | ∢ | 670 | 10,603 | 6,523 | 7,484 | 4,984 | 6,310 | 4,230 |
| | SUB-ACTIVITY TOTAL | | | | 78,359 | | 37,950 | | 34,240 |
| | **MODIFICATION OF WEAPONS AND OTHER COMBAT VEHICLES** | | | | | | | | |
| 30 | M4 CARBINE MODS (GB3007) | ∢ | | | 4,494 | | 4,886 | | 5,149 |
| 31 | M119 MODIFICATIONS (GC0401) | V | | | | | 4,875 | | 4,812 |
| 32 | M16 RIFLE MODS (GZ2800) | ∢ | | | 4,907 | | 4,669 | | 6,241 |
| 33 | MODIFICATIONS LESS THAN \$2.0M (WOCV-WTCV) (GC0925) | | | | 627 | | 1,378 | | 1,128 |
| | SUB-ACTIVITY TOTAL | | | | 10,028 | | 15,808 | | 17,330 |
| | | | | | | | | | |
| | | | | | | | | | |

Appropriation: "WEAPONS & TRACKED COMBAT VEHICLES"

Activity: 2. **WEAPONS AND OTHER COMBAT VEHICLES**

| LINE NO. | | | | | | (I NOUSE | (Thousands of Dollars) | | |
|--|---|-----|---------------|-----|---------|----------|------------------------|-----|--------|
| \Box | ITEM NOMENCLATURE | 0 | FV 99 TINI | | FY 97 | | FY 98 | | FY 99 |
| (1) | | | COST | QTY | COST | QTY | COST | QTY | COST |
| | (2) | (3) | (4) | (2) | (9) | (2) | (8) | (6) | (10) |
| <u>, </u> | **SUPPORT EQUIPMENT AND FACILITIES** | | | | | | | | |
| 34 | ITEMS LESS THAN \$2.0M (WOCV-WTCV) (GL3200) | | | | 889 | | 1,190 | | 1,164 |
| 35 | PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050) | | | | 4,296 | | 6,067 | | 5,140 |
| 36 | INDUSTRIAL PREPAREDNESS (GC0075) | | | | 5,068 | | 5,640 | | 3,959 |
| 37 | SMALL ARMS (SOLDIER ENH PROG) (GC0076) | | | | 5,338 | | 4,093 | | 5,233 |
| 38 | CLOSED ACCOUNT ADJUSTMENTS (GC9500) | | | | 142 | | | | |
| | SUB-ACTIVITY TOTAL | | - | | 15,743 | | 16,990 | | 15,496 |
| | ACTIVITY TOTAL | | | | 104,130 | | 70,748 | | 67,066 |
| | | | | | | | | | |

DEPARTMENT OF THE ARMY FY 99 PROCUREMENT PROGRAM

Appropriation: **WEAPONS & TRACKED COMBAT VEHICLES**

Activity: 3. **SPARES AND REPAIR PARTS**

| FINE | ITEM | | (DOLS) FY 99 | | FY 97 | (Thous | (Thousands of Dollars) FY 98 | | FY 99 |
|------|--------------------------------|-----------|-----------------|------|-----------|--------|---------------------------------|----------|-----------|
| Š. | NOMENCLATURE | <u></u> | TINO | 74.0 | H | 7.1.0 | 1000 | | 1000 |
| | 10/ | Ş | isos S | جُ ﴿ | SOS | ِ خ | is s | 5 | COS |
| Ξ | (2) | <u>(S</u> | (4) | (2) | (9) | 2 | (8) | <u>6</u> | (10) |
| | **SPARES AND REPAIR PARTS** | | | | | | | | |
| 39 | SPARES AND REPAIR PARTS (WTCV) | | | | 19,883 | | 20,199 | | 23,211 |
| | SUB-ACTIVITY TOTAL | | | | 19,883 | | 20,199 | | 23,211 |
| | ACTIVITY TOTAL | | | | 19,883 | | 20,199 | | 23,211 |
| | APPROPRIATION TOTAL | | | | 1,419,055 | | 1,290,865 | | 1,433,608 |
| | | | | | | | | | |

Exhibit P-1M, Procurement Programs - Modification Summary

| L) | (TOA, Dollars in Millions) | n Millions) | 4 | | | | | | I | |
|--|----------------------------|-------------|------|------|------|------|------|------|----------|---------|
| | 1996 & | | | | | | | | 0 | lotal |
| System/Modification | Prior | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | Complete | Program |
| ABRAMS TRNG DEV MOD (GA5208) | | | | | | | | | | |
| M60A3 to M1 Conversion Kits | 5.4 | | | | | | | | | 5.4 |
| OIP Modification to M1A1 COFTs | 2.1 | | | | | | | | | 2.1 |
| AEI | 1.7 | | | | | | | | | 1.7 |
| M1 to M1A1 Modification Kits | 2.2 | 0.4 | | | | | | | | 2.6 |
| Conduct of Fire Trainer (COFT) Image Generator (IG) and Computer R | | 2.8 | 2.2 | 4.1 | 0.8 | 0.8 | 0.8 | 0.8 | 4.3 | 16.6 |
| AGTS/SEP Mod | | | | | | 9.0 | 2.4 | 2.4 | 6.0 | 11.4 |
| Tank Driver Trainer Mod (M1A2 SEP Upgrade) | | | | 4.2 | 1.4 | | | 0.5 | | 6.1 |
| Close Combat Tactical Trainer (CCTT)/SEP Mod | | | | | 0.2 | 6.0 | 2.5 | 2.0 | 2.7 | 8.3 |
| Maintenance Training System (MTS) SEP Mod | | | | 0.2 | 0.3 | 3.2 | | | | 3.7 |
| Total | 11.4 | 3.2 | 2.2 | 8.5 | 2.7 | 5.5 | 5.7 | 5.7 | 13.0 | 67.9 |
| BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500) | | | | | | | | | | |
| Software Upgrades | | 8.0 | | 2.1 | 4.4 | 4.8 | | | | 12.1 |
| Total | | 0.8 | | 2.1 | 4.4 | 4.8 | | | | 12.1 |
| CARRIER, MOD (GB1930) | | | | , | | | | | | |
| Crew Chemical Protection | 0.5 | 1.0 | 1.0 | 6.0 | 0.7 | 0.7 | 1.0 | 1.0 | 21.2 | 28.0 |
| Block 1 | 276.9 | 43.7 | 38.4 | 53.6 | 58.7 | 52.9 | 72.6 | 85.1 | 795.1 | 1477.0 |
| Total | 277.4 | 44.7 | 39.4 | 54.5 | 59.4 | 53.6 | 73.6 | 86.1 | 816.3 | 1505.0 |
| BFVS SERIES (MOD) (GZ2400) | | | | | | | | | | |
| A1-A2 Conversion | 347.3 | 16.4 | 16.8 | 13.6 | | | | | | 394.1 |
| A2 ODS Mods | 67.2 | 49.6 | 28.9 | 31.9 | 1.6 | | | | | 179.2 |
| Transmission Electronic Controller (TEC) | 5.8 | 4.1 | 3.6 | | | | | | | 13.5 |
| ACU Pillow Block Mod | 5.8 | 6.0 | 9.0 | | | | | | | 7.2 |
| Vehicle Intercom System | 8.4 | 3.0 | 3.9 | | | | | | | 15.3 |
| DECA | 11.5 | 5.7 | 4. | 2.5 | | | | | | 21.1 |
| HALON Replacement | 3.7 | 9.0 | 4.7 | 0.1 | 0.1 | | | | | 9.2 |

| | (TOA, Dollars in Millions) | n Millions) | | | | | | | F | F |
|---|----------------------------|-------------|------|------|------|------|------|------|----------|---------|
| | 1996 & | | | | | | | | 0 | lotal |
| System/Modification | Prior | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | Complete | Program |
| Armor Tiles | 40.6 | 32.7 | | | | | | | | 73.3 |
| A2 Card Retrofit | | 0.8 | | | | | | | | 0.8 |
| Suite of Survivability Enhancement Systems | | | | | | 7.4 | 4.0 | 7.6 | | 19.0 |
| A2 ODS Applique | | | | 10.9 | | | | | | 10.9 |
| Total | 490.3 | 113.6 | 0.09 | 9.69 | 1.7 | 7.4 | 4.0 | 7.6 | | 743.6 |
| HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400) | | | | | | | | | | |
| Howitzer Improvement Program | 1207.4 | 95.4 | 66.5 | 11.3 | 9.1 | 5.5 | 0.1 | | | 1395.3 |
| Chlorofluorocarbon (CFC) Elimination | | | 6.3 | | | | | | 9.5 | 15.8 |
| Total | 1207.4 | 95.4 | 72.8 | 11.3 | 9.1 | 5.5 | 0.1 | | 9.5 | 1411.1 |
| FAASV PIP TO FLEET (GA8010) | | | | | | | | | | |
| FAASV Materiel Change (A2 Conversion) | 72.5 | 22.5 | 0.1 | 2.9 | 0.1 | | 18.7 | | | 116.8 |
| FAASV Halon Replacement | 0.4 | 1.0 | 1.8 | 0.3 | | | | | 4.6 | 8.1 |
| Total | 72.9 | 23.5 | 1.9 | 3.2 | 0.1 | | 18.7 | | 4.6 | 124.9 |
| ARMORED VEH LALINCH BRIDGE (AVLB) (MOD) (GZ3000) | | | | | | | | | | |
| AVI B 70 Block MOD | | | | 1.0 | 1.3 | 1.7 | | | | 4.0 |
| Total | | | | 1.0 | 1.3 | 1.7 | | | | 4.0 |
| M1 ABRAMS TANK (MOD) (GA0700) | | | | | | | | | | |
| Halon Replacement (HAR) [MOD 1] | 7.4 | 1.5 | 2.0 | 5.3 | 6.5 | 9.9 | 8.9 | 5.7 | 5.6 | 47.4 |
| Driver's Hatch Interlock (DHI) [Mod 2] | | 20.4 | 6.5 | 5.8 | 4.9 | | | | 39.8 | 77.4 |
| Vehicle Intercommunications System (VIS) [MOD 3] | 27.0 | 6.6 | 6.0 | 5.3 | 0.7 | | | | 4.5 | 50.1 |
| Armament Enhancement Initiative (AEI) [MOD 4] | 60.1 | 0.4 | | | | | | | | 60.5 |
| Precision Lightweight GPS Receiver (PLGR) [MOD 5] | 0.4 | | 0.5 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 13.4 | 17.3 |
| Live Fire Category A (LFCA) [MOD 6] | 14.5 | 5.3 | 3.5 | 3.5 | 3.5 | 3.3 | 2.9 | 2.5 | 0.3 | 39.3 |
| Battlefield Override (BF/OR) [MOD 7] | 13.7 | 2.7 | 2.1 | 4.2 | 1.1 | 0.8 | 9.0 | 0.3 | | 25.5 |
| Live Fire Category B (LFCB) [MOD 8] | 2.4 | 1.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 9.0 | | 8.6 |

| | To Total | plete Program | 1.3 | 296.9 340.0 | 2.1 | 655.5 895.1 | 5.5 9.6 | 40.8 50.8 | 2.4 | 5.3 13.1 | 1.8 | 6.0 13.7 | 3.4 7.3 | 70.4 | 271.4 291.7 | 1348.4 2025.4 | | 13.1 | 0.4 | 5.2 | 2.1 | 20.8 | | 12.8 | 13.9 16.8 | 13.9 29.6 | | 8.9 |
|----------------------------|----------|---------------------|--|-----------------------------------|---|---|--|---|--|-----------------------------------|---|---------------------------------|--------------------------------|---|---------------------------------|---------------|--------------------------|----------------------------------|---------------------|------------------------------------|-----------------------|-------|-----------------------------|-----------------|-----------------|-----------|-------------------------|---|
| | | 2003 Complete | | 8 | | 107.4 6 | 1.0 | | | | | 1.2 | 9.0 | | 2 | 119.9 13 | | | | | | | | | | | | |
| | | 2002 | | | | 82.8 | 1:1 | | | | | 1.0 | 9.0 | | | 97.1 | | | | | | | | | | | | |
| | | 2001 | | | | 46.5 | 1.0 | | | 0.4 | | 2.0 | 9.0 | | | 62.5 | | | | | | | | 0.3 | 2.9 | 3.2 | | |
| | | 2000 | 0.2 | 1.5 | | 2.9 | 1.0 | | | 3.3 | 1.8 | 1.0 | 9.0 | | | 30.4 | | 5.4 | | | | 5.4 | | 2.9 | | 2.9 | | |
| | | 1999 | 0.3 | 2.4 | | | | | | 4.1 | | 0.2 | 0.5 | | 20.3 | 53.3 | | 2.6 | | 1.1 | 1.4 | 5.1 | | 4.8 | | 4.8 | | 4.5 |
| | | 1998 | 0.3 | 3.5 | 0.1 | | | 2.0 | | | | 6.0 | 0.5 | 0.5 | | 29.2 | | 1: | | 3.1 | 0.7 | 4.9 | | 4.9 | | 4.9 | | 1.5 |
| in Millions) | | 1997 | 0.2 | 6.7 | 0.1 | | | 8.0 | 2.4 | | | 1.4 | 0.5 | 4.9 | | 62.9 | | 3.1 | 0.4 | 1.0 | | 4.5 | | | | | | 2.9 |
| (TOA, Dollars in Millions) | 1996 & | Prior | 0.3 | 29.0 | 1.9 | | | | | | | | | 65.0 | | 221.7 | | 6.0 | | | | 0.9 | | | | | | |
| | | System/Modification | Driver's Viewer Quick Release (DVQR) [MOD 9] | Pulse - Jet System (PJS) [MOD 10] | Mounted Water Ration Heater (MWRH) [MOD 11] | System Enhancement Package (SEP) [MOD 12] | Embedded Battle Command (EBC) [MOD 13] | External Auxiliary Pwr Unit (EAPU) [MOD 14] | External Auxiliary Pwr Unit Upgrade (EAPUU) [MOD 15] | NBC Fire Warning (NBCFW) [MOD 16] | Hand-Held Fire Extinguisher (HHFE) [MOD 17] | M1A2 Field Mods (A2FM) [MOD 18] | Matrix Support (MXSP) [MOD 19] | Prior Year Mod Installation (PYMI) [MOD 20] | M1A1-D Integration Kit [MOD 21] | Total | M4 CARBINE MODS (GB3007) | Close Combat Optics (M4 Carbine) | M203 for M4 Carbine | Modular Weapon System (M4 Carbine) | M4 Improved Buttstock | Total | M119 MODIFICATIONS (GC0401) | Block 1 Upgrade | Block 2 Upgrade | Total | 1000040/00001 1 110 077 | M16 KIFLE MODS (GZZ800) Modular Weapon System (M16/M203) |

Exhibit P-1M, Procurement Programs - Modification Summary

| | (TOA, Dollars in Millions) | n Millions) | | | | | | | | |
|---|----------------------------|-------------|-------|-------|-------|-------|-------|-------|----------|---------|
| | 1996 & | | | | | | | | ၀ | Total |
| System/Modification | Prior | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | Complete | Program |
| Close Combat Optics (M16) | 2.8 | 2.0 | 3.1 | 1.7 | | | | | | 9.6 |
| Total | 2.8 | 4.9 | 4.7 | 6.2 | | | | | | 18.6 |
| | | | | | | | | | | |
| MODIFICATIONS LESS THAN \$2.0M (WOCV-WTCV) (GC0925) | | | | | | | | | | |
| M198 Howitzer System Improvement | 13.8 | 9.0 | | | | | | | | 14.5 |
| Machine Gun Optics | | | 1.3 | 1.1 | 1.0 | 1.0 | 1.3 | 1.3 | | 7.1 |
| Total | 13.8 | 9.0 | 1.3 | 7 | 1.0 | 1.0 | 1.3 | 1.3 | | 21.5 |
| | | | | | | | | | | |
| Grand Total | 2298.5 | 354.1 | 221.3 | 210.3 | 118.4 | 145.2 | 200.5 | 220.6 | 2205.7 | 5974.6 |

| | | | | | | | | Date: | | | | |
|--|--|-----------------|--------------------------|-------------------------|---------------------------------|------------------------|---------|---------|------------------------------|---------------|-------------|------------|
| | | Exhibit P-4 | Exhibit P-40, Budget Ite | tem Justification Sheet | ation Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 Item Nomenclature: | re: | | | | | |
| PROCUREMEN | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | CMBT VEHS/1/Tre | cked Combat Vehick | Se, | | | | ABRAMS | ABRAMS TRNG DEV MOD (GA5208) | (A5208) | | |
| Program Elements for Code B Items: | :5: | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 14.2 | 1.0 | 3.0 | 3.2 | 2.2 | 8.5 | 2.7 | 5.5 | 5.7 | 5.7 | 13.0 | 64.6 |
| Less PY Adv Proc | | ٠ | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 14.2 | 1.0 | 3.0 | 3.2 | 2.2 | 8.5 | 2.7 | 5.5 | 5.7 | 5.7 | 13.0 | 64.6 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 14.2 | 1.0 | 3.0 | 3.2 | 2.2 | 8.5 | 2.7 | 5.5 | 5.7 | 5.7 | 13.0 | 64.6 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |

requirements. These changes are hardware and software modifications to existing equipment to keep simulators abreast of developments in the Abrams Tank System. DESCRIPTION: Funding provided will accomplish modifications to Abrams Training Devices required as a result of changes to the Abrams tanks or tank training

modifications are delayed or deleted. The intended sites for the Conduct of Fire Trainer (COFT) M60A3 to M1 Conversions are for the National Guard units. The average expected gunner and commander throughput per year for the modified COFT is 3,016. The Conduct of Fire Trainer (COFT) M1 to M1A1, Optical Improvement (OIP) and Armament Enhancement Initiative (AEI) modifications are for units at FORSCOM, USAREUR, TRADOC, and National Guard. JUSTIFICATION: The program reflected here-in is structured to meet needs validated by the Abrams user community. Degradation of tank training will occur if these

| Exhibit P-40 | Exhibit P-40M Budget Item Justification Sheet | m Justifica | ation Sheet | | | Date | | February 1998 | | |
|---|---|-----------------|----------------------------------|-----------------------|---------|---------|------------------------------|---------------|------|-------|
| Appropriation / Budget Activity/Serial No. PHOCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | cked Combat Vehicles | - | | P-1 Item Nomenclature | īē. | ABRAMS | ABRAMS TRNG DEV MOD (GA5208) | 145208) | | |
| Program Elemen's for Code B llems | | Code | Other Related Program Elements | ram Elements | | | | | | |
| | Fiend Voore | | | | | | | | | |
| | EV 4006 | EV 4007 | EV 4009 | EV 1000 | EV 2000 | EV 2001 | EV 2002 | EV 2003 | T. | Total |
| USIP NO. Classification | FY 1990 | 1881 | 1990 | | L1 2000 | 11 2001 | F1 2002 | L 2003 | 2 | Olai |
| M60A3 to M1 Conversion Kits | | | | | | | | | | |
| 1-03-05-4430 Operational | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 |
| OIP Modification to M1A1 COFTs | | | | | | | | | | |
| 1-90-05-7877 Operational | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| AEI | | | | | | | | | | |
| 1-93-05-4452 Operational | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 |
| M1 to M1A1 Modification Kits | | | | | | | | | | |
| 1-92-06-4419 Operational | 2.2 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 |
| Conduct of Fire Trainer (COFT) Image Generator (IG) and (| tor (IG) and C | Computer Rehost | 3host | | | | | | | |
| 1-97-05-4526 Operational | 0.0 | 2.8 | 2.2 | 4.1 | 0.8 | 0.8 | 0.8 | 0.8 | 4.3 | 16.6 |
| AGTS/SEP Mod | | | | | | | | | | |
| 1-97-05-4527 Operational | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.0 | 2.4 | 2.4 | 0.9 | 11.4 |
| Tank Driver Trainer Mod (M1A2 SEP Upgrade) | | | | | | | | | | |
| 1-97-05-4528 Operational | 0.0 | 0.0 | 0.0 | 4.2 | 1.4 | 0.0 | 0.0 | 0.5 | 0.0 | 6.1 |
| Close Combat Tactical Trainer (CCTT)/SEP Mod | po | | | | | | | | | |
| 1-97-05-4529 Operational | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 2.5 | 2.0 | 2.7 | 8.3 |
| Maintenance Training System (MTS) SEP Mod | | | | | | | | | | |
| 1-97-05-4530 Operational | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 3.2 | 0.0 | 0.0 | 0.0 | 3.7 |
| | ; | | | | | | | | 9 |] |
| Totals | 11.4 | 3.2 | 2.2 | 8.5 | 2.7 | 5.5 | 2.7 | 2.7 | 13.0 | 6.76 |
| FY96 & prior does not include 6.8 of FY93 program dollars | | or mod that | for mod that has been completed. | mpleted. | | | | | | |
| | | | | | | | | | | |

| | | | | | INDI | 'IDUAL | MODI | INDIVIDUAL MODIFICATION | N | | | | | | | Date | | Febr | February 1998 | | П |
|---|--|--------------------------------------|--------------------------------|------------------|------------------------------|------------------------------|-------------------------------|---|--------------------------|-------------------|-------------------|-------------------|----------------|----------------------------|---------|--|--|-----------------|----------------|-----------------|----------|
| MODIFICATION TITLE: | . M60A3 to M1 Conversion Kits 1-03-05-4430 | o M1 C | onversi | ion Kit | s 1-03 | -05-4 | 130 | | | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: M60A3 COFTS | AS AFFECTED |): M60A3 | COFTS | | | | | | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: The Conduct of Fire Trainer (COFT) provides with ammunition consumption. The COFT is | TFICATION: ire Trainer (consumption | (COFT) | provide SOFT i | es the | ready igured | capat to the | oility for | the ready capability for precision tank gu configured to the tank system it supports. | ision n it su | tank | gunne ts. | ery tra | ining | while | educi | ng the | the ready capability for precision tank gunnery training while reducing the O&S costs associated configured to the tank system it supports. | osts a | ssocia | ated | |
| In support of the Abrams fielding schedule, the conversion of M60A3 COFTs to M1 COFTs is required to meet the Army's new force structure. The structure has changed to make the M60 tank and training devices obsolete. This situation establishes an urgent requirement to convert the M60A3 COFTs to M1 configuration. | Abrams field changed to M1 configu | ding sch make 1 rration. | edule, the M6 | the co 0 tank | nversi and tr | on of aining | M60A devic | 3 COF | Ts tc solete | M1 C | S situ | s is re ation | establ | d to m lishes | eet th | e Arm) jent re | e conversion of M60A3 COFTs to M1 COFTs is required to meet the Army's new force structure. tank and training devices obsolete. This situation establishes an urgent requirement to convert th | force ent to | struct | ure. | o |
| Without this modification, one of the following most likely will occur: 1) Negative training results from using outdated COFTs; 2) In lieu of using the outdated COFTs, units do little or no gunnery training; or 3) Units increase training with the tank and consumption of full caliber ammunition (which is more costly and ultimately defeats the primary purpose of the COFT). | fication, one -Ts, units do | e of the b little or mately of | followir r no gu defeats | ng mos nnery | st likel trainin imary | y will c g; or § purpo | occur: Un se of | 1) N its incr | egativ rease OFT). | /e trai traini | ining i ng wit | results th the | s from tank | using and cc | outde | tted Co | most likely will occur: 1) Negative training results from using outdated COFTs; 2) In lieu of using lery training; or 3) Units increase training with the tank and consumption of full caliber ammunition to primary purpose of the COFT). | 2) In I | ieu of ammu | using nition | D.C |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: | TUS / MAJOR | DEVELO | PMENT | MILEST | ONES | | 립 | PLANNED | ~ | | ACC | ACCOMPLISHED | SHED | - | | | | | | | |
| Contractor Test and Evaluation: Initial Operational Test and Evaluation: | valuation: and Evaluatio | Ë | | | | | • • | 4095 4095 | | | | 1096 | 60 6 | | | | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | | | | | | |
| | Pr Yr | FY 1997 | 997 | | | FY 1998 | 86 | | | ₹ | FY 1999 | | | Н | FY 2000 | | | Ŧ | FY 2001 | | |
| Inputs Outputs | Totals 16 4 13 | 2 2 | ю г | 4 4 | - | N | е | 4 | | 2 | | m | 4 | - | 2 | <u>е</u> | 4 | | 2 | 8 | 4 |
| | FY | FY 2002 | | | FY 2003 | 8 | | | FY | FY 2004 | | | Į. | FY 2005 | | | To | | | Totals | sle |
| | - | 2 3 | 4 | 1 | 2 | 3 | 4 | - | 2 | 3 | | 4 | Ļ | 2 | 3 | 4 | Complete | 0 | | | |
| Inputs Outputs | | | | | | | | | | | | | | | | | | | | | 20 |
| METHOD OF IMPLEMENTATION: Contract Dates: | ENTATION: | Contractor FY 1997 FV 1997 | tor | V | DMINI | TRATI F | IVE LEA FY 1998 FY 1998 | ADMINISTRATIVE LEADTIME: FY 1998 FY 1998 | | - | Months | su | PAC FY 1 | PRODUCTION PROPINS FY 1999 | ON LE | PRODUCTION LEADTIME: FY 1999 FY 1999 | : 12 | Months | sı | | |
| Delivery Date. | | 2 | | | | | | $\ $ | | | | | | | | | | | | | 7 |

| M60A3 to M1 Conversion Kits 1-03-05-430 Inches | | | | | | <u>Q</u> | IVIDUAL | INDIVIDUAL MODIFICATION | \TION | | | | | | | Date | | Februa | February 1998 | |
|---|----------------------------------|-------|--------------|--------------|-------|----------|---------|-------------------------|-------|--------|----|------|-----|------|-----|------|----|--------|---------------|-----|
| 20 3.6 1.6 | MODIFICATION TITLE (Cont): | | M6 | 0A3 to | M1 Co | nversic | n Kits | 1-03-05- | 4430 | | | | | | | | | | | |
| And Prior | FINANCIAL PLAN: (\$ in Millions) | 7 | 80 | | | | | | | | | | | | | | | | | |
| Oty \$ Oty | | and F | rior. | FY 1 | 166 | FY 19 | 86 | FY 1999 | H | Y 2000 | FY | 2001 | FY: | 2002 | FY | 2003 | Ţ | 0 | TOTAL | A! |
| Nonrecurring 20 3.8 recurring 1.6 nge Orders ent ent ent or Support or Support or Support or Support recurring 20 3.8 ent | | δţ | s | Oty | 69 | Qty | 69 | Н | H | | ĝ | 49 | δţ | ↔ | αţλ | 69 | άţ | 69 | Qty | 69 |
| Nonrecurring 20 3.8 Nonrecurring 1.6 nocurring or Support or Suppo | RDT&E | | | | | | | | _ | | | | | | | | | | | |
| 20 3.8 reduces 1.6 reduces 20 3.8 re | PROCUREMENT | | | | | | | | | | | | | | | | | | | |
| Turing 20 3.0 1.6 Fig. 1.6 Fig | Ni Guariniy | 6 | Č | | | | | | | | | | | | | | | | ć | Ċ |
| riders refined to the state of | Installation Kits | 02 | 60 4 60 4 | | | | | | | | | | | | | | | | 20 | 3.8 |
| rders room refers | Equipment | | ó | | | | | | | | | | | | | | | | | |
| rders port | Equipment, Nonrecurring | | | | | | | | | | | | | | | | | | | |
| Fig. 1 | Engineering Change Orders | | | | | | | | | | | | | | | | | | | |
| port :- Kitis | Data | | | | | | | | | | | | | | | | | | | |
| port :- Kits | Training Equipment | **** | | | | | | | | | | | | | | | | | | |
| Feet Miles | Support Equipment | | | | | - | | | | | | | | | | | | | | |
| Fig. 1. Set 1. S | Other | | | | | | | | | | | | | | | | | | | |
| -: Kits | Interim Contractor Support | | | | | | | | | | | | | | | | | | | |
| - Kits | | | | | | | | | | | | | | | | | | | | |
| -: Kits | | | | | | | | | | | | | | | | | | | | |
| Kits | | | | | | | | | | | | | | | | | | | | |
| :- Kits | | | | | • | | | | | | | | | | | | | | | |
| - Kits | Section of House of | | | | | | | | | | | | | | | | | | | |
| t - Kits ment Cost | EV 1006 & Prior East Kite | | | - | | | | | | • | | | | | | | | | | |
| t - Kits ment Cost | TV 4004 T = 101 | | | | | | | | | | | | | | | | | | | |
| t - Kits ment Cost | Silver and Education | | | | | | | | | | | | | | | | | | | |
| t - Kits ment Cost | FY 1998 Eqpt Kits | | | | | | | | | | | | | | | | | | | |
| t - kits ment Cost | FY 1999 Eqpt Kits | | | | | | | | | | | | | | | | | | | |
| t - kits t - kits t - kits ont ment Cost | FY 2000 Eqpt kits | | | - | | | | | | | | | | | | | | | | |
| t kits t kits ont ment Cost | FY 2001 Eqpt kits | | | - | | | | | - | | | | | | | | | | | |
| t kits ont ment Cost | FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | | |
| ent ment Cost | FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | | |
| ent ment Cost | TC Equip-Kits | | | | | | | | | | _ | | | | | | | | | |
| _ | Total Installment | | | | | | | | | - | _ | | | | | | | | | |
| | Total Procurement Cost | | 5.4 | | | | | | | | | | | | | | | | | 5.4 |

| | | | N | IVIDUAL | INDIVIDUAL MODIFICATION | ATION | | | | | | Date | ۰ | F | February 1998 | |
|--|------------------------|--------------------|------------------|-----------------------|---|--------------------|-------------------|---------------------|--------------------|--------------------|-----------------|----------------------|----------------------|-------------------|--------------------|------------|
| MODIFICATION TITLE: OIP Modification to M | OIP Modification to M1 | | COFTS | A1 COFTs 1-90-05-7877 | 5-7877 | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED | : M1A1 COFT | s | | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | | | • | • | | | | | • | | | - | | | | |
| This modification is required because the tank's optics now include filters to protect the crew from eye damage resulting from exposure to lasers. To accommodate the improved optics, a new switch, which induces the eye safe laser filters, has been added and the switch used to | because the improved | e tank' optics. | s optic a new | s now ii switch, | tank's optics now include filters to protect the crew from eye damage resulting from exposure to Itics, a new switch, which induces the eye safe laser filters, has been added and the switch user | lters to nduces | protect the ev | ot the c re safe | rew tro laser f | m eye ilters, h | damag as bee | e resull n adde | ing fron d and t∤ | n expo ne swit | sure to ch usec | d to |
| change the gunner's sight from high to low power has been redesigned and relocated. Training with the Conduct of Fire Trainers (COFTs) will | om high to | ow po | ver has | peen r | edesign | ed and | reloca | ted. T | raining | with th | e Con | duct of | Fire Tra | iners (| COFTS | s) will |
| enable the gunners and commanders to quickly find and use the correct switches by touch. | ımanders to | quick | y find a | esn pu | the cor | rect sw | itches | by touc | Ĕ, | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | DEVELOPME | | MILESTONES: | ij | 1 | 1 | | 3 | | 1 | | | | | | |
| | | | | | PLA | FLANNED | | ₹ | ACCOMPCIONED | משחמ | | | | | | |
| Contractor Test and Evaluation: | | | | | 1096 | 96 | | | 1096 | | | | | | | |
| Initial Operational Test and Evaluation: | Ë | | | | 2096 | 96 | | | 3036 | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | |
| Pr Yr | FY 1997 | | | FY 1998 | 966 | | 1 | FY 1999 | | | FY 2000 | 000 | | | FY 2001 | |
| Tota | 2 | | 4 | | 8 | 4 | - | 2 | 6 | 4 | 7 | 8 | 4 | - | 7 | 9 |
| Inputs 20 | | 20 | 8 5 | 8 5 | 8 8 | 6 | | | | | | | | | | |
| Cuthuis | | | | | 23 | 2 | $\frac{1}{2}$ | - | | | | | $\left \right $ | | | |
| FY | FY 2002 | L | F | FY 2003 | | | FY 2004 | | | FY; | FY 2005 | | | 10 | | Totals |
| | 2 3 | 4 | 1 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 2 | 3 | 4 | Complete | ete | | |
| Inputs | | | | | | | | | | | | | | | | 100 100 |
| METHOD OF IMPLEMENTATION: | Contractor | | ADMIN | IISTRAT | ADMINISTRATIVE LEADTIME: | TIME: | 6 | Months | hs | PROD | JCTION | PRODUCTION LEADTIME: | | 18 Months | ıths | |
| Contract Dates: Delivery Date: | FY 1997 FY 1997 | | | | FY 1998 FY 1998 | | | | | FY 1999 FY 1999 | o | | | | | |
| | | | | | ١ | | | l | | | | | | l | | l |

| | | | | | 2 | INDIVIDUAL MODIFICATION | MODIF | ICATION | | | | | | | Date | e | | February 1998 | 1998 | Γ |
|--|-----------|---------|-----|------------------|---------|----------------------------|-----------|---------|---------|-------------|---------|-----------|--------------|-----------|-----------|----|-----|---------------|-------|-----|
| MODIFICATION TITLE (Cont): | | ō | Mod | OIP Modification | to M1/ | to M1A1 COFTs 1-90-05-7877 | Ts 1-9 | 90-05-7 | 877 | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | i | 5 | | | | | | | | | | | | | | | | | | |
| | and Prior | o io | Ā | FY 1997 | FY 1998 | 966 | FY 1999 | 660 | FY 2000 | 0 | FY 2001 | | FY 2002 | 2 | FY 2003 | 83 | TC | | TOTAL | ٦ |
| | Qty | s | δ | \$ | Oty | € | Qty | €9 | Qty | Н | Qty | \$ | Qty | €9 | Qty | 49 | Oţ. | €9 | Ωţλ | € |
| RDT&E PROCUREMENT | | | | | | | | | | | | - | | | | | | | | |
| Kit Quantity Installation Kits | 100 | <u></u> | | | | | | | | | | <u> </u> | | | | | | | 100 | 1.5 |
| Installation Kits, Nonrecurring | ! | 0.6 | | | | | | | | | | | | | | | | | | 9.0 |
| Equipment | | | | | | | | | | | | | | | | | | | | |
| Equipment, Nonrecuring Engineering Change Orders | | | | | | | | | | | | | | | | | | | | |
| Data | | | | | | | | | | | | | | | | | | | | |
| Training Equipment | | | | | | • | | | | | | | | , | | | | | | |
| Support Equipment | | | | · | | | | | | | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | - | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | , | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | - | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits | | | | | | | | - | | | | - | | | | | | | | |
| FY 1997 Eqpt Kits | | | | | | | | | - | | | | | _ | | | | | | |
| FY 1998 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 1999 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 2000 Eqpt kits | | | | | | | | | | | | | | _ | | | | | | |
| FY 2001 Eqpt kits | | | | | | | | | | | | | | - | | | | | | |
| FY 2002 Eqpt kits | | | | | | | - | | | | | | | | ••• | | | | | |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| Total Installment | | | | | | 1 | 1 | | + | \dagger | + | \dagger | + | \dagger | \dagger | T | | | | |
| | | | | | | | \dagger | | | \dagger | - | \dagger | \dagger | T | \dagger | T | T | Ī | | 0.1 |
| otal Procurement Cost | | 2.1 | | | | | | | _ | \parallel | | 1 | - | | | | | | | 6.1 |

| | | | | | INDIV | IDUAL I | INDIVIDUAL MODIFICATION | ATION | | | | | | | Date | | Februs | February 1998 | \prod |
|---|--------------------|------------|----------------------|---------|-------------|---------|--------------------------|--------------------|------------------|---------|---------------------|--------|--------------------|----------------------|---------|--|----------|---------------|-------------|
| MODIFICATION TITLE: A | AEI 1-93-05-4452 | -05-44 | 55 | | | | | | | | | : | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: M1A1 COFTS | FECTED | : M1A1 C | OFTs | | | | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | TION: | | | | | | | | | | | | | | | | | | |
| The Armament Enhancement Initiative (AEI), 120mm tank round modification is required to change the configuration of the M1A1 COFT to the | ncemer | it Initiat | ive (AE | 1), 120 | mm ta | ink rou | nd mo | difficati | on is r | equire | d to ch | ange | the co | onfigur | ation o | El), 120mm tank round modification is required to change the configuration of the M1A1 COFT to the | 1A1 CC | FT to | the |
| training and can only be provided in the COFT. The COFT will require both hardware and software changes to provide this capability. A key | be pro | ided in | the CC | H. H | The CC | JFT wi | II requi | re both | hard | ware | os pur | tware | chan | ges to | provid | e this ca | pability | /. A ke | > |
| benefit of training with the COFT is in training gunners and commanders on the capability of new rounds with special features without having to fire the actual rounds. Using the existing COFTs without this capability results in severe negative training. The COFT must maintain the same | h the C(Usino | OFT is | n traini Istino C | ng gui | witho | and co | mmanc | ders or ity res | the c ults in | apabi | lity of r e nega | new ro | unds v aining | with sp . The | COFT | eatures must rr | withou | t having | g to |
| configuration as the tank system it supports. | ank sys | tem it s | upport | ú | | | | | | |) | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | <u>-</u> |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | MAJOR | DEVELO | | MILEST | MILESTONES: | | PLAI | PLANNED | | 4 | ACCOMPLISHED | LISHE | | | | | | | |
| Contraction Total Contractions | į | | | | | | Ç | 900 | | | 1096 | 9 | | | | | | | |
| Initial Operational Test and Evaluation: | Lori. Evaluatio | Ë | | | | | 2 0 | 2096 | | | 3096 | 9 9 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | | | | |
| ₽r | _ | FY 1997 | 266 | | | FY 1998 | 98 | H | | FY 1999 | 6 | Н | | FY 2000 | | | FY | FY 2001 | |
| Tota | S . | 2 | က | 4 | - | 2 | 3 | 4 | - | 2 | 3 | 4 | - | 2 | 6 | 4 | 2 | က | 4 |
| Inputs | 20 | | 8 8 | 20 | 20 0 | 10 | 8 8 | 20 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | FY | FY 2002 | | | FY 2003 | 03 | | | FY 2004 | 4 | | | FY 2005 | 2 | | To | C | | Totals |
| | 1 2 | 3 | 4 | - | 7 | 3 | 4 | - | 2 | 3 | 4 | - | 7 | က | 4 | Complete | 6 | | |
| Inputs | | | | | | | | | | | | | | | | | | | 100 |
| METHOD OF IMPLEMENTATION: | ATION: | Contractor | tor | • | DMINIS | TRATIV | ADMINISTRATIVE LEADTIME: | TIME: | | 9 Mc | Months | Ы | ODOC | PRODUCTION LEADTIME: | ADTIM | E: 18 | Months | " | |
| Contract Dates: | | FY 1997 | | | | íLίι | FY 1998 EV 1998 | | | | | 2 2 | FY 1999 FY 1999 | | | | | | |
| Delivery Date. | | 200 | | | | | 2001 | | ١ | | | | | | | | | | |

| MODIFICATION TITLE (CONT): | | AE | 11-93- | AEI 1-93-05-445 | 2 | | | | | | | | | | | | | |
|---|-----------|---------|---------|-----------------|---------|---|---------|---------|-----|---------|-----|---------|-----|---------|------|---|-------|-----|
| FINANCIAL PLAN: (\$ in Millions) | | | | | | | | | | | | | | | | | | |
| | and Prior | arior - | FY 1997 | 266 | FY 1998 | - | FY 1999 | FY 2000 | FY | FY 2001 | FY | FY 2002 | ΕΥ | FY 2003 | TC | c | TOTAL | A |
| | Qty | 49 | Qty | 49 | Qty | | Oty \$ | Oty \$ | Qty | \$ | Qty | €9 | Qty | S | Offy | ₩ | Oty | €9 |
| RDT&E PROCUREMENT | | | | | | | | | | | | | | | | | | |
| Kit Quantity | | | | | | | | | | | | | | | | | | |
| Installation Kits | 8 | 1.2 | | | | | | | | | | | | | | | 9 | 1.2 |
| Installation Kits, Nonrecurring Equipment | | 0.5 | | | | | | | | | | | | | | | - | 0.5 |
| Equipment, Nonrecurring | | | | | | | | | | | | | | | , | | | |
| Engineering Change Orders | | | | | | | | | | | | | | | | | | |
| Data | | | | | | | | | | | | | | | | | | |
| Training Equipment | | | | | | | | | | | | | | | | | | |
| Support Equipment | | | | | | | | | | | | | | | | | | |
| Other | • | | | | | | - | | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits | | | | | | | | | | | | | | | | | | |
| FY 1997 Eqpt Kits | | | | | | | | | | | | | | | | | | |
| FY 1998 Eqpt Kits | | | | | | | | | | | | | | - | | | | |
| FY 1999 Eqpt Kits | | | | | | | | | | | | | | | | | | |
| FY 2000 Eqpt kits | | | | | | | | | | | | | | | | | | |
| FY 2001 Eqpt kits | | | | | | | | | | | | | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | | | | | | | | | | | | | |
| Total Installment | | | | | | | | | | | | | | | | | | |
| Total Procurement Cost | | 1.7 | | | | | | | | | | | | | | | | 1.7 |

| MODIFICATION TITLE COMM | | | | | | 0777 00 00 F -127 17 | | | | | | | | | | | | I |
|----------------------------------|-----------|---------|---|-----------|----------|----------------------|-----|---------|-----|---------|---------|-----|---------|-----|----|----|-------|-----|
| MODIFICATION TILE (CORU). | M | 1 to M1 | M1 to M1A1 Modification Kits 1-92-06-4419 | dificatio | n Kits 1 | -9Z-06-4 | 419 | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | FY 1996 | | | | | | | | | | | | | | | | | |
| | and Prior | FΥ | FY 1997 | FY 19 | 1998 | FY 1999 | _ | FY 2000 | FΥ | FY 2001 | FY 2002 | 002 | FY 2003 | 003 | TC | - | TOTAL | ڀ |
| | Oty \$ | Qty | 49 | Qty | €9 | Oty \$ | οţ | \$ | Qty | \$ | άþ | €9 | Öţ | €9 | δţ | 49 | λĵ | 69 |
| RDT&E | | | | | | | | | | | | | | | | | | |
| PROCUREMENT | | | | | | | | | | | | | | | | | | |
| Kit Quantity | | | | | | | | | | | | | | | | | | |
| Installation Kits | 48 1.2 | 2 | 0.4 | | | | | | | | | | | | | | 23 | 1.6 |
| Installation Kits, Nonrecurring | 1.0 | _ | | | | | | | | | | | - | | | | | 0. |
| Equipment | | | | | | | | | | | | | | | | | | |
| Equipment, Nonrecurring | | | | | | | | | | | | · | | | | | | |
| Engineering Change Orders | | | | | | | | | | | | | | | | | | |
| Data | | | | | | | | | | | | | | | | | | |
| Training Equipment | | | | | | | | | | | | | | | | | | |
| Support Equipment | - | | | | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | · | | | | | |
| Interim Contractor Support | | | | | | - | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | - | | | |
| Installation of Hardware | | | | | | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits | | | | | | | | | | | | | | | | | | |
| FY 1997 Eqpt Kits | | | | | | | | | | | | | | | | | | |
| FY 1998 Eqpt Kits | | | | | | | | | | | | | | | | | | |
| FY 1999 Eqpt Kits | | | | | | | | | | | | | | | | | | |
| FY 2000 Eqpt kits | | | | | | | | | | | | | | - | | | | |
| FY 2001 Eqpt kits | | | | | | | | | | | | | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | | | | | | | | | | | | | |
| Total Installment | | | | | | | | | | | | | | | | | | |
| Total Procurement Cost | 2.2 | 2 | 0.4 | | | _ | L | | _ | | | | | | | | | 2.6 |
| | | | | | | | | | | | | | | | | | | |

| | | | | Z | INDIVIDUAL MODIFICATION | MODIF. | ICATION | | | | | | | | Date | | February 1998 | 1998 | |
|---|-----------|-------|-----------------|---------|--|---------|---------|----------|---------------------------------------|---------|--------|-------|---------|--------|---------|-----|---------------|-------|------|
| MODIFICATION TITLE (Cont): | ŏ | onduc | Conduct of Fire | Traine | Trainer (COFT) Image Generator (IG) and Computer Rehost 1-97-05-4526 |) Imaç | je Gene | erator (| IG) an | d Con | nputer | Rehos | t 1-97- | 05-452 | 9 | | | | |
| FINANCIAL PLAN: (\$ in Millions) | EV 1006 | _ | | | | | | | | | | | | | | | | | |
| | and Prior | ú | FY 1997 | FY 1998 | 866 | FY 1999 | 666 | FY 2000 | 8 | FY 2001 | 100 | FΥ | FY 2002 | FΥ | FY 2003 | TC | | TOTAL | ہ |
| A | Oty \$ | ğ | €9 | Qty | ↔ | Qty | မှာ | αţλ | \$ | oty | €> | Qty | €9 | Qty | €9 | Qty | 49 | Qty | €9 |
| RDT&E PROCUREMENT Kit Quantity | | | | | | | | | | | | | | | | | | | |
| Installation Kits Installation Kits, Nonrecurring | | | 2.8 | - | 2.1 | 6 | 1.6 | Ω. | 0.8 | 4 | 0.8 | 4 | 0.8 | 4 | 0.8 | 22 | 4.3 | 49 | 9.2 |
| Equipment Equipment, Nonrecurring Engineering Change Orders | | - " | | | | | | | | | | | | | | | | | |
| Data Training Equipment Surved Faultment | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | |
| Other Interim Contractor Support | | | | | | | | | | | | | | | | | *** | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | | | | | | *** | |
| FY 1997 Eqpt Kits | | | | | | | | | | | | | | | | | | | |
| FY 1998 Eqpt Kits FY 1999 Foot Kits | | | | | | | | | | | | | | | | | | | |
| FY 2000 Eqpt kits | | | | | - | | | | | | | | | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | | |
| FY 2003 Eqpt kits | | | | | - | | | | | | | | | | | | ٠ | | |
| Total Installment | | | | | | | | | | | | | | | | | | | |
| Total Procurement Cost | | | 2.8 | | 2.2 | | 4.1 | | 0.8 | | 0.8 | | 0.8 | | 0.8 | | 4.3 | | 16.6 |

| | | | NON | IDUAL | INDIVIDUAL MODIFICATION | ATION | | ı | l | | | ı | Date | | Г | February 1998 | 866 | |
|---|------------------------------|--------|-----------------|---------|--------------------------|---------|---------|---------|--------------|----------|--------------------|----------------------|--------|----------|--------|---------------|------------|--------|
| MODIFICATION TITLE: AGTS/S | AGTS/SEP Mod 1-97-05-4527 | 05-45 | 72 | | | | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: M1A2 Advanced Gunnery Training System | D: M1A2 Advance | d Gunn | ary Train | ing Sys | me | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | | | | | | | | | | | | | | | | | | |
| This funding will modify existing M1A2 Advanced Gunnery Training Simulators to represent the most recent SEP changes to the M1A2. It is cheaper to modify existing training devices than to procure new ones. | sting M1A2 Adraining devices | /anced | Gunr to proc | ery Tra | aining S w ones | imula | tors to | repre | sent t | he mo | st rec | ent SE | :P ch | segui | to the | M1A2 | : <u>+</u> | |
| | | | | : | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | DEVELOPMENT | | MILESTONES: | | PLAN | PLANNED | | A | ACCOMPLISHED | PLISHE | | | | | | | | |
| Contractor Test and Evaluation: Initial Operational Test and Evaluation: | :uo | | | | 3003 | 8 8 | | | | | | | | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | | | |
| PrYr | FY 1997 | † | 1 | FY 1998 | | + | - | FY 1999 | 6 | ╁ | + | FY 2000 | ٥ | + | ŀ | FY 2001 | ٦ | 1 |
| Inputs Outputs | 7 | + | | v | 9 | + | - | y v | 2 | | - | u | 9 | | - | u | 7 | |
| λ | FY 2002 | | FY 2003 | 8 | H | | FY 2004 | _ | - | | FY 2005 | 22 | | | 1º | | ř | Totals |
| | 2 3 4 | F | 2 | 3 | 4 | - | 2 | 8 | 4 | - | 2 | 8 | 4 | Complete | olete | | | |
| Inputs Outputs | | | 2 | | | | 8 | | | | | | | | 12 21 |) (| | 4 4 |
| METHOD OF IMPLEMENTATION: | Contractor | • | ADMINIS | STRATI | ADMINISTRATIVE LEADTIME: | IIME: | | 6 Mo | Months | A I | SODOC | PRODUCTION LEADTIME: | EADTII | | 18 M | Months | | |
| Contract Dates: Delivery Date: | FY 1997 FY 1997 | | | il il | FY 1998 FY 1998 | | | | | <u> </u> | FY 1999 FY 1999 | | | | | | | |
| | | l | ١ | | | | | | | ı | | | | | | l | l | 1 |

| | | ON! | IVIDUAL | INDIVIDUAL MODIFICATION | NOI | Ш | | | | .: | Date | | February 1998 | 1998 | |
|---|---|---|------------------------|-------------------------------------|--------------------|---------------|----------------------|--------------------|---------------------|--|-----------------------|----------|---------------|--------------|--------|
| MODIFICATION TITLE: Tank Driver Trainer Mod (M1A: MODELS OF SYSTEMS AFFECTED: M1A1 Tank Driver Trainer | Tank Driver Trainer Mod (M1A2 SEP Upgrade) 1-97-05-4528 | M1A2 S | EP Upgi | ade) 1-9 | 7-05-45 | 528 | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | | | | | | | | | | | | 4 | | | |
| The Tank Driver Trainer (TDT) simulates actual tank performance for beginner and transitioning drivers. It provides a range of motion and simulated environments, terrain and situations which are difficult or impossible for the driver to experience in normal training or operations. | T) simulates ac ain and situatic | tual tank pour | serforma are diffic | nce for bult or imp | eginner ossible | and tra | ansition driver t | ing driv o expe | rience | provide in norm | es a rar Ial train | ing or o | notion | | The |
| M1A2 driver's compartment and tasks are significantly different from the M1A1. This project the Armor School to match projected throughput of students as more M1A2s enter the field. | and tasks are s rojected throug | significantly different from the M1A1. This project upgrades existing M1A1 Tank Driver Trainers at ghput of students as more M1A2s enter the field. | y differer udents a | nt from the s more N | e M1A1 11A2s e | This nter the | project field. | upgrac | les exi | sting M | IA1 Tar | k Drive | er Trair | ners a | Ħ |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | | MILESTONES: | ij | PLANNED | | | ACCOMPLISHED | PLISHE | ۵ | | | | | | |
| Contractor Test and Evaluation: Initial Operational Test and Evaluation: | ë | | | 3000 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Installation Schedule: | FV 1007 | | EV 1998 | α | | FV 1999 | g | - | Į. | FY 2000 | | | FY 2001 | 100 | |
| Totals 1 Totals 1 Outputs | 2 3 | 1 | 2 | 6 | 4 | 7 | e - | 4 | - | 1 1 | 4 | = | 2 | | 4 + |
| | | | 2000 | | V 2000 | 100 | - | | 2006 | | | 1 | | 1 | Totale |
| 1 2 | 2 3 4 | 1 2 | 3 | 4 | 2 | 9 | 4 | - | 2 2 | 3 4 | | Complete | | - | Clais |
| Inputs Outputs | _ | | - | | | | - | | | | | | | | ဗ |
| METHOD OF IMPLEMENTATION: Contract Dates: | Contractor FY 1997 | ADMIN | IISTRATIV F | ADMINISTRATIVE LEADTIME: FY 1998 | Æ: | 9 | Months | PR. | PRODUCTI FY 1999 | PRODUCTION LEADTIME: FY 1999 Mar 99 | TIME: | 24 N | Months | | |
| Delivery Date: | FY 1997 | | | FY 1998 | | | | Ŧ | FY 1999 | Sep 01 | | | | | |

| EY 1996 and Prior Gly \$ | Tank Driver Trainer Mod (M1A2 SEP Upgrade) 1-97-05-4528 FY 1997 | 1 Traine | Pr Mod (() | (M1A2) | Mod (M1A2 SEP Upgrac | pgrade) | 1 -97-05- | -4528 | FY 2001 | FY 2002 | 89 000 | FY 2003 Oty \$ | 2003 \$ | - | 3 3 3 3 4 TOTAI | 3.4 2.7 |
|--------------------------|--|----------|------------|--------|----------------------|---------|-----------|-----------|---------|---------|--------|-------------------|------------|---|-----------------|------------|
| | | | | | | | | | | | | | | | | i |
| | | | | | | | | | | | | | | | | |
| | | T | | l | | 4.2 | - | 4 | | | | | 0.5 | | | 6.1 |

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|---|---|--------------------------|-------------------|--------------|----------------------|-------------|----------|---------------|--------|
| | | INDIVIDUAL MODIFICATION | FICATION | | | Date | ŭ | February 1998 | |
| ODIFICATION TITLE: | Close Combat Tactical Trainer (CCTT)/SEP Mod 1-97-05-4529 | Trainer (CCTT)/SEP M | lod 1-97-05-4529 | | | | | | |
| ODELS OF SYSTEN | IODELS OF SYSTEMS AFFECTED: Close Combat Tactical Trainer (CCTT) | actical Trainer (CCTT) | | | | | | | |
| ESCRIPTION / JUSTIFICATION: | IFICATION: | | | | | | | | |
| This funding wi | This funding will modify existing Close Combat Tactical Trainer modules to represent the most recent SEP changes to the M1A2. | mbat Tactical Trainer n | nodules to repres | ent the mo | st recent SEP ch | anges to th | e M1A2 | | |
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| EVELOPMENT STA | EVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: | | PLANNED | ACCOMPLISHED | LISHED | | | | |
| Contractor Test and Evaluation: | valuation: | | 3002 | | | | | | |
| nitial Operational Test and Evaluation: | t and Evaluation: | | 4002 | | | | | | |
| | | | | | | | | | |
| stallation Schedule: | | | | | | | | | |
| | Pr Yr FY 1997 | FY 1998 | FY | FY 1999 | FY 2000 | 0 | | FY 2001 | |
| nputs | Totals 1 2 3 | 4 1 2 3 | 4 | 3 | 1 2 | ε 4 | - | 3 | 4 |
| outputs | | | | | | | | | |
| | FY 2002 | FY 2003 | FY 2004 | | FY 2005 | | 10 | | Totals |
| | 1 2 3 4 | 1 2 3 4 | 1 2 | 3 4 | 1 2 3 | 4 Cor | Complete | | |
| nputs | 14 | 80 | | | | | 5 5 | | 8 8 |
| METHOD OF IMPLEMENTATION: | MENTATION: Contractor | ADMINISTRATIVE LEADTIME: | ADTIME: 6 | Months | PRODUCTION LEADTIME: | EADTIME: | 15 Moi | Months | |
| contract Dates: | FY 1997 | FY 1998 | 8 | | FY 1999 | | | | |
| elivery Date: | FY 1997 | FY 1998 | 8 | | FY 1999 | | | | |

| Γ | | | | 1.1 | | 8.3 |
|-------------------------|--|----------------------------------|----------|--|---|------------------------|
| 1998 | | | TOTAL | \$ 6 E | + | |
| February 1998 | | | ı | 5.7 | | 2.7 |
| | | | 2 | 52 | Ì | |
| Date | | | FY 2003 | O. လ | 1 | 2.0 |
| 1 | | | FY | φ | | |
| | | | FY 2002 | ত ও | ľ | 2.5 |
| | | | <u>L</u> | 4 | | _ |
| | 6 | | FY 2001 | 6.0 | ľ | 6.0 |
| | 05-452 | | ۲ ا | | | N N |
| | d 1-97- | | FY 2000 | N. O | ľ | 0.2 |
| NOI | EP Mo | | Ā | 3 | | _ |
| INDIVIDUAL MODIFICATION | Tactical Trainer (CCTT)/SEP Mod 1-97-05-4529 | | | 9 | | _ |
| UAL MO | ner (C | | í l | | | |
| INDIVID | cal Trai | | 198 | | | |
| | | | H | | 1 | |
| | Close Combat | | 138 | 9 | + | |
| | Close | Г | Ц | Š | | |
| | | FY 1996 | d Pri | | 1 | |
| | | L | ľ | | | |
| | MODIFICATION TITLE (Cont): | FINANCIAL PLAN: (\$ in Millions) | | RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2003 Eqpt Kits | | Total Procurement Cost |

| | | NON | INDIVIDUAL MODIFICATION | DIFICATIO | N | | | | | | Da | Date | | February 1998 | 1998 | |
|---|--|--|-------------------------------------|----------------|----------|---------|--------|--------------|-------------------|---------|---------------------------------|---------|----------------|---------------|----------|-------|
| MODIFICATION TITLE: Maintena | Maintenance Training System (MTS) SEP Mod 1-97-05-4530 | stem (MTS | SEP M | od 1-97- | 05-45 | 30 | | | Ĭ | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: M1A2 Maintenance Trainers | M1A2 Maintenance | Trainers | | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | | | | | | | : | | | | | | | | | |
| This funding will modify existing M1A2 Mai | sting M1A2 Main | intenance Training Systems to represent the most recent SEP changes to the M1A2. | aining S | ystems t | o repr | esent | the mo | ost rec | ent SE | P cha | nges t | o the I | M1A2. | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: | DEVELOPMENT MII | ESTONES: | | PLANNED | a | | ACCO | ACCOMPLISHED | | | | | | | : | |
| Contractor Test and Evaluation: Initial Operational Test and Evaluation: | ë | | | 3001 | | | | | | | | | | | | |
| Installation Schadule: | | | | | | | | | | | | | | | | |
| Pryr | FY 1997 | | FY 1998 | | | FY 1999 | 666 | | | FY 2000 | 8 | - | | FY 2001 | 9 | |
| | 2 3 | - | 2 | 3 | - | 2 | 8 | 4 | - | 2 | ၉ | 4 | ᅱ | 2 | 3 | 4 |
| Inputs Outputs | | | | | | | | | | | | | | | | 2 2 |
| | | | | ļ | | | | | | | - | | ļ | | ľ | : |
| FY | FY 2002 | FY 2003 | 200 | 7 | FY 2004 | 904 | + | + | FY 2005 | 05 | 7 | Č | lo Complete | | <u> </u> | otals |
| Inputs | | | | | 1 | | | | | | - | | | | | 22 12 |
| METHOD OF IMPLEMENTATION: Contract Dates: | Contractor FY 1997 | ADMINIS | ADMINISTRATIVE LEADTIME: FY 1998 | EADTIME 398 | <u>.</u> | 9 | Months | | PRODUC FY 1999 | NOIL | PRODUCTION LEADTIME: FY 1999 | ME | 15 N | Months | | |
| Delivery Date: | FY 1997 | | FY 1998 | 988 | | | | | FY 1999 | | | ı | ı | | ı | 7 |

| | | | NDIVIDU | INDIVIDUAL MODIFICATION | CATION | | | | | | Date | | February 1998 | 866 | Γ |
|---|-----------|--|---------------|-------------------------|--------|------------|--------|---------|---------|-----|---------|-----|---------------|-------|-----|
| MODIFICATION TITLE (Cont): | M | Maintenance Training System (MTS) SEP Mod 1-97-05-4530 | aining Systen | n (MTS) | SEP Mo | od 1-97-0€ | 5-4530 | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | FY 1996 | 1 | | | | | | | | | | | | | |
| | and Prior | FY 1997 | FY 1998 | FY 1999 | 66 | FY 2000 | FY 2 | FY 2001 | FY 2002 | - | FY 2003 | 101 | F | TOTAL | |
| u F | Oty \$ | Qty \$ | Qty \$ | δţλ | \$ | Oty \$ | Qty | es. | Oty \$ | Qty | \$ | Oty | 49 | è | €9 |
| RDT&E PROCUREMENT Kit Quantity Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits | | | | | 0.5 | | 2 | 9.00 | | | | | | 2 | 1.1 |
| TC Equip-Kits Total Installment | | | | | | | | | | + | | | | | |
| Total Procurement Cost | | | | | 0.2 | 0 | 0.3 | 3.2 | | _ | _ | | | | 3.7 |

| | | | | | | | | Date: | | | | |
|--|--|----------------|--------------------------|--------------|---------------------------------|------------------------|---------|---------|-----------------------------------|---------------|-------------|------------|
| | | Exhibit P-4 | Exhibit P-40, Budget Ite | em Justifice | m Justification Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | No: | | | | | P-1 Item Nomenclature: | тө: | | | | | |
| PROCUREMENT | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | MBT VEHS/1/Tra | cked Combat Vehicle | 8 | | | | BRADLEY | BRADLEY BASE SUSTAINMENT (G80718) | T (G80718) | | |
| Program Elements for Code B Items: | | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | 317 | 97 | 105 | 80 | 98 | 73 | 103 | 163 | 181 | 142 | 887 | 2246 |
| Gross Cost | 320.1 | 137.1 | 134.6 | 250.9 | 231.0 | 285.8 | 295.3 | 430.0 | 457.8 | 391.8 | 2328.3 | 5262.6 |
| Less PY Adv Proc | | | | | | | | 37.5 | 42.0 | 33.0 | 151.3 | 263.8 |
| Plus CY Adv Proc | | | | | | | 9.09 | 38.3 | 13.6 | | 151.3 | 263.8 |
| Net Proc (P-1) | 320.1 | 137.1 | 134.6 | 250.9 | 231.1 | 285.9 | 355.9 | 430.8 | 429.4 | 358.8 | 2328.3 | 5262.8 |
| Initial Spares | | | 4.9 | 2.3 | 0.3 | 7.1 | 9.3 | 11.8 | 11.0 | 11.2 | 83.9 | 141.8 |
| Total Proc Cost | 320.1 | 137.1 | 139.5 | 253.2 | 231.4 | 293.0 | 365.2 | 442.6 | 440.4 | 370.0 | 2412.2 | 5404.6 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | 1.0 | 1.4 | 1.3 | 3.2 | 2.4 | 4.0 | 3.0 | 2.7 | 2.6 | 2.8 | 2.7 | 2.4 |

DESCRIPTION: The Bradley Base Sustainment Program initiated a program to upgrade first generation Bradleys(A0) into the A2 configuration and bridge the production gap until the introduction of the A3 upgrade vehicles. FY99 marks the third production year of the A3 configuration. The upgraded A3 Bradley Fighting Vehicle will facilitate enhanced command and control, provide greater lethality, survivability, mobility, and sustainability required to defeat current and future threat forces while remaining operationally compatible with the main battle tank.

JUSTIFICATION: The FY99 Budget will provide the third year of LRIP for the A3 upgrade program. The MZA3 upgrade program will provide digital communications and target acquisition upgrades required to fight as a member of the combined arms team. These vehicles will be remanufactured in the prime contractor's plant to preserve the critical skills and vendor base to allow for future modernization.

Quantities are all A0-A2's in FY96 and prior, 45 A0-A2 Linebackers and 35 A3's in FY97, 80 A0-A2ODS and 18 A3's in FY98, and all A3's thereafter.

A four year multi-year contract is planned for FY's 00-03.

| | Exhibit P-40C Budget Item Justification Sheet | n Justific | ation SI | heet | | Date February 1998 |
|--|---|-----------------------------------|----------------------------|--------------------------------|-----------------------|-----------------------------------|
| Appropriation / Budget Activity/Seriat No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | acked Combat Vehicles | | | Ξ | P-1 Item Nomenciature | BRADLEY BASE SUSTAINMENT (980718) |
| Program Elements for Code B Items | | Code | Other Relate | Other Related Program Elements | Elements | |
| A3 Advanced Procurement Detail (in Mils): FY TOA FY2000 for FY2001 (memo) FY2000 for FY2002 (memo) FY2001 for FY2003 (memo) FY2001 for FY2003 (memo) FY2002 (memo) FY2002 (memo) FY2002 (memo) FY2003 (memo) | Fiscal Year | 2000 37.5 20.3 2.8 (3 | 2001 21.7 16.6 (4 | 2002 (42.0) (13.6 (3) | (33.0) | |
| | | | | | | |

| Exhibit P-5, Weapon WTCV Cost Analysis | | Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | get Activity/ OF WPNS acked Comb | /Serial No: | | P-1 Line Iten BRADLEY | P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (G80718) | MENT (G80718) | | Weapon System Type: | | Date: Febr | February 1998 |
|---|----|--|----------------------------------|-------------|-----------|--------------------------|--|---------------|-------|---------------------|--------------|---------------|---------------|
| WTCV | Ω | | FY 96 | | | FY 97 | | | FY 98 | | | FY 99 | |
| Cost Elements | CD | | Qty | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Oth | UnitCost |
| | | \$000 | Each | \$000 | \$000 | | \$000 | 000\$ | Each | \$000 | 000\$ | | \$000 |
| BRADLEY BASE SUSTAINMENT (MZA3) BRADLEY BASE SUSTAINMENT (MZA3) | | 134613 | | | 175878 | | | 115878 | | | 13280 272564 | | |
| TOTAL | _ | 134613 | | | 250920 | | | 231043 | | | 285844 | | |

| | | | | | | | | Data: | | | | |
|--|---|---------------------|-------------------------|------------------------|---------------------------------|------------------------|---------|--------------|---|----------------|-------------|------------|
| | | Exhibit P-4 | Exhibit P-40, Budget It | em Justification Sheet | ition Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | ial No: | | | | | P-1 Item Nomenclature: | re: | | | | | |
| PROCUREMEN | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicle | CMBT VEHS / 1 / Tra | cked Combat Vehick | 98 | | | | BRADLEY BASI | BRADLEY BASE SUSTAINMENT (M2A2/) (G80716) | 2A2/) (G80716) | | |
| Program Elements for Code B Items: | ns: | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Oty | 317 | 97 | 105 | 45 | 80 | | | | | | | 644 |
| Gross Cost | 320.1 | 137.1 | 134.6 | 75.0 | 115.2 | 13.3 | 3.3 | 6.3 | 0.0 | 0.0 | 0.0 | 804.8 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 320.1 | 137.1 | 134.6 | 75.0 | 115.2 | 13.3 | 3.3 | 6.3 | 0.0 | 0.0 | 0.0 | 804.8 |
| Initial Spares | | | 4.9 | 2.3 | | | | | | | | 7.2 |
| Total Proc Cost | 320.1 | 137.1 | 139.5 | 77.3 | 115.2 | 13.3 | 3.3 | 6.3 | 0.0 | 0.0 | 0.0 | 812.0 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | 1.0 | 1.4 | 1.3 | 1.7 | 1.4 | | | | | | | 1.3 |
| | | | | | | | | | | | | |

DESCRIPTION: The Bradley Base Sustainment Program initiated a program to upgrade first generation Bradleys(A0) into the A2 configuration and bridge the production gap until the introduction of the A3 upgrade vehicles. FY99 marks the third production year of the A3 configuration. The upgraded A3 Bradley Fighting Vehicle will facilitate enhanced command and control, provide greater lethality, survivability, and sustainability required to defeat current and future threat forces while remaining operationally compatible with the main battle tank.

Quantities are all A0-A2's in FY96 and prior, 45 A0-A2 Linebackers FY97, and 80 A0-A2ODS in FY 98.

| Exhibit P-5, Weapon WTCV Cost Analysis | | Appropriation/ Budget Activity/Seriat No: PROCUREMENT OF WPNS & TRKD CMBT VFHS. 1 1 Tracked Combat Valkiolas | get Activity/S OF WPNS & | Activity/Serial No: • WPNS & TRKD CMBT | | P-1 Line Item BRADLEY | P-1 Line Item Nomenclature: BRADLEY BASE SUSTAINMENT (M2A2/) | AENT (M2A2/) | > | Weapon System Type: | | Date: Febri | February 1998 |
|---|---|--|-----------------------------|---|--------------|--------------------------|---|--------------|----------|---------------------|-----------|----------------|---------------|
| WTCV | Ð | | FY 96 | | | FY 97 | (300/10) | | FY 98 | | | FY 99 | |
| ents | 8 | TotalCost | ğ | UnitCost | TotalCost | Oţ. | UnitCost | TotalCost | Qfy | UnitCost | TotalCost | Q Q | UnitCost |
| | П | 000\$ | Each | \$000 | 000\$ | Each | 000\$ | 000\$ | Each | 000\$ | \$000 | Each | \$000 |
| 1. VEHICLE | | 60371 | 105 | 575 | 30600 | 45 | 089 | 49867 | 08 | 623 | | | |
| 3. Engine | | 4965 | 105 | 47 | | | | 4000 | 8 8 | 20 | | | |
| 4. Track | | 1933 | 105 | 18 | 829 | 45 | 1 8 | 1497 | 80 | 19 | | | |
| 5. Other GFE (Buy) 6. Other GFE (Reman) | | 11109 | 2 5 5 5 | 106 | 4832 5043 | 45 | 112 | 9107 | <u> </u> | 0 4 | | | |
| 7. STINGER Kits | | | | | 20464 | 66 | 207 | | | | | | |
| | | | | | | | | | | | | | |
| SUBTOTAL | | 94045 | | | 61768 | | | 93298 | | | | | |
| | | | | | | | | | | | | | |
| 8. Govt Test & Eval | | 340 | | | 5732 | | | 4100 | | | 1787 | | |
| 10. Engineering-Government | | 4270 | | | | | | | | | | | |
| 12. Fielding | | 7842 | | | 7542 | | | 3036 | | | 6940 | | |
| 13. Reimbursable Matrix Supt | | 2155 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| SUBTOTAL | | 32096 | | | 13274 | | | 7136 | | | 13280 | | |
| 14. PSE | | 5472 | | | | | | 14731 | | 1.454 | | | |
| TOTAL | | 134613 | | | 75042 | | | 115165 | | | 13280 | | |
| Gross P-1 End Cost | | 134613 | | | 75042 | | | 115165 | | | 13280 | | |
| Net P-1 Full Funding Cost | | 134613 | | | 75042 | | | 115165 | | | 13280 | | |
| Other Costs | | 4854 | - 1,1 | | 9971 | | | | | | | | |
| Mods | | | | | i | | | | | | | | |
| TOTAL | | 139467 | | | 77313 | | | 115165 | | | 13280 | | |
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| Exhibit P | Exhibit P-5a, Budget Procurement History and Planning | istory ar | nd Planning | | | | | Date: | February 1998 | 9 |
|---|---|---------------------|-----------------|--------------------------|-----------------|--|---|------------|---------------|-------------------|
| Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vahicles | | Weapon System Type: | п Туре: | | 2-1 Line Item P | P-1 Line Item Nomenclature: BRADLEY BAS | Nomencialure: BRADLEY BASE SUSTAINMENT (M2A2) (G80716) | (M2A2/) ((| 380716) | |
| ements: | Contractor and Location | Contract | Location of PCO | Award Date Date of First | Date of First | QTY | Unit Cost | Specs | | RFP Issue Date |
| Fiscal Years | | and Type | | 1 | Delivery | Each | \$000 | Now | Avail | T |
| | UDLP, York PA | SS/FFP | TACOM | Jan-96 | Mav-97 | 105 | 575 | | 9 | |
| FY 97 | UDLP, York PA | SS/FFP | TACOM | 76-Inc | Nov-97 | 45 | 089 | YES | 2 | |
| | UDLP, York PA | SS/FFP | TACOM | 86-bny | Nov-99 | 80 | 623 | | 9 | - |
| 2.1288 | | | | | | | | | | |
| FY 96 | HAC, LaGrange GA | SS/FFP | AMCOM | Feb-96 | Mar-97 | 75 | 118 | | 9 | |
| FY 98 | HAC, LaGrange GA | | АМСОМ | Nov-98 | Ang-99 | 80 | 250 | YES | 9 | |
| من من | | | | | | | | | | |
| | Cummins, Columbus IN | SS/FFP | TACOM | Jan-96 | Mar-96 | 105 | 47 | | 2 | |
| FY 98 | Cummins, Columbus IN | SS/FFP | TACOM | Aug-98 | Nov-98 | 80 | 20 | YES | 9 | |
| 7007 | | | | | | | | | | |
| K | Goodvear, Akron OH | SS/FFP | TACOM | Feb-96 | Feb-97 | 105 | 18 | | 9 | |
| FY 97 | Goodyear, Akron OH | | TACOM | Sep-97 | Oct-97 | 45 | 18 | YES | 2 | |
| | Goodyear, Akron OH | SS/FFP | TACOM | Sep-98 | Sep-99 | 80 | 19 | | 9 | |
| 7 STINGEB Kile | | | | | | | | | | |
| FY 97 | Boeing Corp | SS/FFP AMCOM | АМСОМ | Mar-97 | Nov-97 | 66 | 207 | YES | 9 | |
| | | | | | | | | | | |
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| REMARKS: | | | | | | | | | | |

| FY 98 / 99 BUDGET PRODUCTION SCHEDULE | JCTION | SCH | EDUL | ш | | - | BRADLEY | | 60 | BRADLEY BASE SUSTAINMENT (M2A2/) (G80716) | Y BAS | E SUS | TAIN | ENT (| M2A2 |) (GB(| (9120 | | | | | | | | T. | bruan | February 1998 | | | |
|---------------------------------------|----------|-----------|------------------|-------|--------|----------------|---------|-----------|----------|---|----------------|----------------|----------------------|------------------|-------|-------------|-------|-----------|--------------------|-------|----------|----------------------|--------------|-----------|-------------|------------------|---------------|--------|--------------|---|
| | L | H | _ | g | ACCEP. | BAL | | | | r | sca | Fiscal Year 96 | r 96 | | | | | | | | | Fisc | Fiscal Year | ar 97 | 2 | | | | _ | Г |
| | | | _ | QTY | | DUE | | | H | | | | Cale | Calendar Year 96 | r Yea | ır 96 | | | | | | | Cale | apue | ır Ye | Calendar Year 97 | | | ۷ | |
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| | 1 FY 9 | 76 | ٨ | 45 | 0 | 45 | | | + | \dashv | - | | | | | | | ٦ | 7 | ┪ | \dashv | \dashv | 7 | + | \dashv | | < | 4 | 45 | |
| | 1 FY 98 | 98 | А | 80 | 0 | 80 | | | | H | | | | | | | | | | | | | | | | \dashv | \dashv | | 8 | |
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| FY 98 / 99 BUDGET PRODUCTION SCHEDULE | JCTION S | CHED | ULE | | | | | 8 | MADLE | BRADLEY BASE SUSTAINMENT (M2A2/) (G80716) | SUST | AINME | VT (M2 | A2) (G | 80716 | | | | | | | | -ebrua | February 1998 | | | |
| | | L | PROC | H | L | L | | | | Fiscal Year 98 | Year | 86 | | | | | | | E | Fiscal Year 99 | Year | 66 | | | | Ľ | |
| | Σ | ဟ | ΔT | - | | L | | H | | | ۲ | Calendar Year 98 | dar | ear 🤅 | 80 | | | H | | Ö | alenc | ar V | Calendar Year 99 | 6 | | ۷ | _ |
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| | 1 FY96 | _ | 105 | 17 | 88 | 4 | 3 | 1 | | | | | 10 | 8 8 | 8 | 7 | 8 | 8 | 4 4 | 4 | 4 | 3 | 2 | 2 2 | | | |
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| | | | Ц | Ц | | Н | | H | Н | Ц | | П | H | Н | Ш | | П | H | H | Н | | | П | Н | H | Ц | П |
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Item No. 2 Page 9 of 18 29

| · | | Exhibit P-4 | Exhibit P-40, Budget Item Justification Sheet | em Justifica | ation Sheet | | | Date: | | February 1998 | | |
|--|--|-----------------|---|--------------|---------------------------------|------------------------|---------|-------------|--|---------------|-------------|------------|
| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 Item Nomenclature: | .e: | | | | | |
| PROCUREMENT | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combal Vehicles | CMBT VEHS/1/Tra | icked Combat Vehicle | SS | | | | BRADLEY BAS | BRADLEY BASE SUSTAINMENT (M2A3) (G80717) | 2A3) (G80717) | | |
| Program Elements for Code B Items: | :6 | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| 0 | 023735A | | | 8 | | | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | 38 | 18 | 73 | 103 | 163 | 181 | 142 | 488 | 1602 |
| Gross Cost | 0.0 | 0.0 | 0.0 | 175.9 | 115.9 | 272.6 | 292.0 | 423.7 | 457.8 | 391.8 | 2328.3 | 4458.0 |
| Less PY Adv Proc | | | | | | | | 37.5 | 42.0 | 33.0 | 151.3 | 263.8 |
| Plus CY Adv Proc | | | | | | | 60.6 | 38.3 | 13.6 | | 151.3 | 263.8 |
| Net Proc (P-1) | 0.0 | 0.0 | 0.0 | 175.9 | 115.9 | 272.6 | 352.6 | 424.5 | 429.4 | 358.8 | 2328.3 | 4458.0 |
| Initial Spares | | | | | 0.3 | 7.1 | 9.3 | 11.8 | 11.0 | 11.2 | 83.9 | 134.6 |
| Total Proc Cost | 0.0 | 0.0 | 0.0 | 175.9 | 116.2 | 279.7 | 361.9 | 436.3 | 440.4 | 370.0 | 2412.2 | 4592.6 |
| Fiyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | 2.0 | 6.5 | 3.8 | 2.9 | 2.7 | 2.6 | 2.8 | 2.7 | 2.9 |
| i contract | : | | | | | | | | | | | |

DESCRIPTION: The Bradley Base Sustainment Program initiated a program to upgrade first generation Bradleys(A0) into the A2 configuration and bridge the production gap until the introduction of the A3 upgrade vehicles. FY99 marks the third production year of the A3 configuration. The upgraded A3 Bradley Fighting Vehicle will facilitate enhanced command and control, provide greater lethality, survivability, and sustainability required to defeat current and future threat forces while remaining operationally compatible with the main battle tank. JUSTIFICATION: The FY99 Budget will provide the third year of LRIP for the A3 upgrade program. The M2A3 upgrade program will provide digital communications and target acquisition upgrades required to fight as a member of the combined arms team. These vehicles will be remanufactured in the prime contractor's plant to preserve the critical skills and vendor base to allow for future modernization.

A four year multi-year contract is planned for FY's 00-03.

| Exhibit P-4 | Exhibit P-40C Budget Item Justification Sheet | n Justific | ation S | heet | | Date | February 1998 | |
|---|---|------------------------------|----------------------------|--------------------------------|-----------------------|-----------------|--|--|
| Appropriation / Budget Activity/Serial No. | | | | _ | P-1 Item Nomenclature | | | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | cked Combat Vehicles | | | | | BRADLEY BASE SI | BRADLEY BASE SUSTAINMENT (M2A3) (G80717) | |
| Program Elements for Code B Rems | | Code | Other Relate | Other Related Program Elements | lements | | | |
| A3 Advanced Procurement Detail (in Mils): FY TOA FY2000 for FY2001 (memo) FY2000 for FY2002 (memo) FY2001 (memo) FY2001 for FY2002 (memo) FY2001 for FY2003 (memo) FY2002 for FY2003 (memo) FY2002 for FY2003 (memo) FY2002 for FY2003 (memo) | Fiscal Year | 2000 20.3 20.3 20.3 | 2001 21.7 16.6 (4 | 13.6 (3.0) | (33.0) | | | |
| | | | | | | | | |

| it P-5, | | Appropriation/ Budget Activity/Serial No. | get Activity/ | Serial No: | | -1 Line Item | P-1 Line Item Nomenclature: | | ≥ | Weapon System Type: | | Date: | |
|---|-----------|---|---------------|-----------------------------|---------------------|--------------|--|---------------------|-------|---------------------|--------------------------------|-----------|------------------------|
| WTCV Cost Analysis | | VEHS / 1 / Tracked Combat Vehicles | acked Com | a IHRD CMB1 bat Vehicles | | BHADLEY | BHAULEY BASE SUSTAINMENT (MZAS) (G80717) | MEN I (MZA3) | | | | Febru | February 1998 |
| WTCV | ₽ | | FY 96 | | | FY 97 | | | FY 98 | | | FY 99 | |
| Cost Elements | CD | TotalCost | Oty | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Q Ş | UnitCost |
| | \forall | \$000 | Each | 000\$ | 000\$ | Each | 000\$ | \$000 | Each | 000\$ | \$000 | Each | \$000 |
| | | | | | 68348 | 35 | 1953 | 34785 | 4 4 8 | 1933 | 59134 | 73 | 810 606 |
| 3. FLIH 4. Other GFE 5. Reman (General Dynamics) 7. Pre Mod Depot Maint | | | | | 3212 | 35 | 92 | 2224 | 18 | 532 124 | 36425 55959 6049 4290 | 8 2 2 2 2 | 4/9 767 83 59 |
| | | | | | | | | | | | | | |
| SUBTOTAL | | | | | 128246 | | | 70085 | | | 206071 | | |
| | | | | | 7234 | | | 11777 | | | 15180 | | |
| Project Management Administration Reimbursable Matrix Support Test and Evaluation | | | | | 1843 1945 861 | | | 1882 2544 760 | | | 2314 2443 277 | | |
| SUBTOTAL | | | | | 37594 | | | 38385 | | | 47979 | | |
| Cummins Engine Life-of-Type (LOT) Buy Peculiar Support Equipment Classroom Spares | | | | | 8038 | | | 2600 | | | 7837 | | |
| 17. Fielding | | | | | | | | 1808 | | | 8528 | | |
| SUBTOTAL | | | | | 10038 | | | 7408 | | | 18514 | | |
| Gross P-1 End Cost | | | | | 175878 175878 | | | 115878 | | | 272564 272564 | | |
| Less: Prior year Adv Proc Net P-1 Full Funding Cost Plus: P-1 CY Adv Proc | | | | | 175878 | | | 115878 | | | 272564 | | |
| Other Non P-1 Costs Initial Spares Mode | | | | | | | | 293 | | | 7130 | | |
| TOTAL | | | | | 175878 | | | 116171 | | | 279694 | | |
| P | | | | | | | | | | | | | |
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| | | | | | | | | Date: | | |
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| Exhibit | Exhibit P-5a, Budget Procurement History and Planning | listory ar | nd Planning | | | | | Ĩ. | February 1998 | 8 |
| Appropriation / Budget Activity/Serial No: | | Weapon System Type: | m Type: | | P-1 Line Item Nomenclature: | Vomenclature: | | | | |
| PROCUREMENT OF WINS & THAD CMB! VEHS/1/ Tracked Combar Vehicles | | | | | _ | BRADLEY BA | BRADLEY BASE SUSTAINMENT (M2A3) (G80717) | (M2A3) (C | (2120) | |
| WBS Cost Elements: | Contractor and Location | Contract | Location of PCO | Award Date Date of First | Date of First | ΔTΛ | Unit Cost | Specs | Date R Revsn | RFP issue Date |
| Fiscal Years | | and Type | | | Delivery | Each | \$000 | Now? | Avail | |
| 1. Vehicle | | | | | | | | | | |
| | UDLP, York PA | SS/FFP | TACOM | Jul-97 | Oct-98 | 32 | 1953 | YES | 9 | |
| | UDLP, York PA | SS/FFP | TACOM | Nov-97 | May-99 | 18 | 1933 | YES | 9 | |
| FY 99 | UDLP, York PA | SS/FFP | TACOM | Dec-98 | Mar-00 | 73 | 810 | YES | 9 | |
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| FY 97 | HAY THEON 11,1 X/HAC,GA | | AMCOM | Sep-97 | Aug-98 | c c | 1020 | у (| 2 2 | |
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| FY 99 | 180 | Į. | AMCOM | Jan-99 | -ep-00 | 2 | 909 | ה ה ה | 2 | |
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| 3. PLIR | TEXAS INSBIMENT DALLAS TX | 00/120 | MA | Mor 07 | 00 70 | 20 | 7777 | ν Ε | 2 | |
| /6 /L | I EAAS INSHOMENI, DALLAS IA | | | Mai-97 | 96-Ide | ù | 777 | 2 1 | 2 9 | |
| FY 98 | TEXAS INSRUMENT, DALLAS TX | | NAC | Jan-98 | Jan-99 | 27 | 532 | YES | 9 | |
| FY 99 | TEXAS INSRUMENT, DALLAS TX | SS/FFP | NVL | Jan-99 | Dec-99 | 26 | 479 | YES | 9 | |
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| EV 98 / 89 BLIDGET PRODUCTION SCHEDIII F | CTION | SCHE | DINE | | | P-1 Item Nomenclature: | Nome | nclatu | nciature: BRADI EY BASE SHISTAINMENT (M2A3) (GR0717) | SES | STAIN | MENT | ACM) | 3) (GB(| (212) | | | | <u> </u> | Date: | | | Fa | Fahruary 1998 | 1998 | | | |
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| 1. Vehicle | | | Н | | | | П | | Н | Н | Н | Н | Ц | | | П | H | Н | Н | Н | Н | H | Н | Н | Н | Ц | | _ |
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| | 1 FY02 | Н | A 181 | | 181 | | | | Н | _ | | _ | | | | | | | H | H | Н | _ | H | L | L | | 181 | |
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Exhibit P-21, Production Schedule

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| | FY 98 / 99 BUDGET PRODUCTION SCHEDULE | NOCI ION | NCT NCT | | 1 | | | | | BHAL | ZEY B | ASE SU | BHADLEY BASE SUSTAINMENT (MZA3) (GB0/1/) | MEN | M2A3) | (380/ | <u>.</u> | ı | ١ | | | | | | repruary 1998 | 9881 6 | ı | | Т |
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| INITIAL INITIAL RECADER RECA | | + | + | | - | - | Т | | CHOER | + | + | | | | | H | | | | | П | | | | | | |
| REORDER REORDER INITIAL REORDER REORDE | | | - | | | | | Z | TIAL | H | H | | П | | | Н | | | | | П | | | | | | |
| REORDER | | | H | | | | | 2 | ORDER | \dagger | + | | | | | 4 | | I | | | T | | | | | | |
| | | | | | | | T | RE | JADER | | + | | T | | | H | | T | | | Т | | | 1 | | | |

| | | | | | | | | Date: | | | | |
|--|------------------|--|--------------------------|------------------------|---------------------------------|------------------------|------------------|--|---------------------------------------|---------------|-------------|------------|
| | | Exhibit P-4 | Exhibit P-40, Budget Ite | em Justification Sheet | ation Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | I No: | | | | | P-1 Item Nomenclature: | re: | | | | | |
| PROCUREMEN | T OF WPNS & TRKD | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | cked Combat Vehicle | SS | | | | BRADLEY FV | BRADLEY FVS TRAINING DEVICES (G20900) | ES (G20900) | | |
| Program Elements for Code B Items: | S: | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | | | | ٧ | | 0203735A D | 371 COMBAT VEHIC | 0203735A D371 COMBAT VEHICLE IMPROVEMENT PROGRAM | PROGRAM | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 225.4 | 0.0 | 0.0 | 9.0 | 0.0 | 12.7 | 23.8 | 19.0 | 2.6 | 3.3 | 36.4 | 323.9 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 225.4 | 0.0 | 0.0 | 9.0 | 0.0 | 12.7 | 23.8 | 19.0 | 2.6 | 3.3 | 36.4 | 323.9 |
| Initial Spares | 1.8 | | | | | | | | | | | 1.8 |
| Total Proc Cost | 227.2 | 0.0 | 0.0 | 9.0 | 0.0 | 12.7 | 23.8 | 19.0 | 2.6 | 3.3 | 36.4 | 325.7 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |

Description:

- Bradley Advanced Training System (BATS) Integrated BFVS A3 crew precision gunnery training system.
- Maintenance Trainer Replicates actual Bradley turret allowing maintainers to trouble shoot, fault isolate, and repair.
 Precision Gunnery System (PGS) Upgrade PGS to integrate BFVS A3. Facilitates unit sustainment training between gunnery cycles.
 - Bradley Desktop Trainer (BDT) desktop computer designed to support individual and networked unit training.

Justification:

suitable training areas will drastically reduce the capability to provide effective, realistic training on the BFVS through the operational use of the vehicle. The goal of training devices is to provide cost effective training to the soldiers without sacrificing realism. This training equipment will be part of an overall training package which will training equipment. The rising cost of fuel, ammunition, repair parts, environment restrictions, vehicles used exclusively for training, and restriction on the availability of Introduction of the more technologically advanced Infantry Fighting Vehicle and Cavalry Fighting Vehicles into the Army inventory necessitates a redesign of existing be used to replicate or substitute for actual vehicle use.

| Exhibit P-5, Weapon | | Appropriation/ Budget Activity/Seriat No: PROCUREMENT OF WPNS & TRKD C | iget Activity/ r OF WPNS | Serial No: & TRKD CMBT | | P-1 Line Iter BRADL | P-1 Line Item Nomenclature: BRADLEY FVS TRAINING DEVICES | G DEVICES | | Weapon System Type: | | Date: Febru | February 1998 |
|------------------------------------|----|--|-----------------------------|---------------------------|-----------|------------------------|---|-----------|-------|---------------------|-----------|----------------|---------------|
| WICY COSt Alialysis | | VEHS / 1 / Tracked Combat Vehicles | acked Com | oat Vehicles | | | (G20900) | | | | | | |
| WTCV | Q | | FY 96 | | | FY 97 | | | FY 98 | | | FY 99 | |
| Cost Elements | CD | | Qty | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Qty | UnitCost |
| | Ц | 000\$ | Each | 000\$ | \$000 | Each | \$000 | 000\$ | Each | \$000 | 000\$ | Each | \$000 |
| Production: | | | | | | | | | | | | | |
| 1.Bradley Advanced Training System | | | | | | | | | | | 6500 | က | 1300 |
| 2. Maintenance Trainers | | | | | 440 | - | 440 | | | | 1545 | 4 | 386 |
| 3. Precision Gunnery System | | | | | | | | | | | 2552 | 25 | 102 |
| 4. Bradley Desktop Trainer (BDT) | | | | | | | | | | | 1152 | 96 | 12 |
| Government Engineering: | | | | | 131 | | | | | | 979 | | |
| TOTAL | | | | | 571 | | | | | | 12728 | | |
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| 7 | Evhihit D.5a Budget Procurement History and Planning | History a | nd Planning | | | | | Date: | | , |
|---|--|---------------------|-----------------|--------------------------|-----------------------------|---------------|---------------------------------------|----------|---------------|-------------------|
| Appropriation / Budget Activity/Serial No: | | Weapon System Type: | em Type: | | P-1 Line Item Nomenclature: | Vomenclature: | | | reblualy 1990 | 8 |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat | tes | | | | | BRADLEY F | BRADLEY FVS TRAINING DEVICES (G20900) | ICES (G2 | (0060 | |
| WBS Cost Elements: | Contractor and Location | Contract | Location of PCO | Award Date Date of First | Date of First | QΤΥ | Unit Cost | Specs | Date Revsn | RFP Issue Date |
| Fiscal Years | | and Type | | | Delivery | Each | \$000 | Now? | Avail | |
| 1. Bradley Advanced Training System FY99 | TBD | FFP | TBD | Nov-98 | Aug-99 | 5 | 1300 | N/A | N/A | N/A |
| 2. Maintenance Trainers | | | | | | | | | · | |
| FY97 | TBD | FF G | TBD | Aug-98 | Jan-99 | - | 440 | N/A | N A | A/N |
| FY99 | TBD | FFP | TBD | Jan-99 | 96-Inc | 4 | 386 | N A | ¥ X | A/A |
| 3. Precision Gunnery System | | | | | | | | | | |
| FY99 | SAAB, Sweden | FFP | STRICOM | Dec-98 | Aug-99 | 25 | 102 | NA | A A | A/A |
| 4. Bradley Deskbook Trainer | | | | | | | | | | |
| FY99 | UDLP | FFP | STRICOM | Nov-98 | Aug-99 | 96 | 12 | A/N | N/A | A/N |
| | | | | | | | | | | |
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| REMARKS: | | | | | | | | | | |
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| | | | | | | | | Date: | | | | |
|--|--|-----------------|---|--------------|---------------------------------|------------------------|---------|---------|-------------------------------|---------------|-------------|------------|
| | | Exhibit P-4 | Exhibit P-40, Budget Item Justification Sheet | em Justifica | ntion Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | ıl No: | | | | | P-1 Item Nomenclature: | re: | | | | | |
| PROCUREMENT | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | CMBT VEHS/1/Tra | cked Combat Vehicle | ş | | | | HAB TR | HAB TRAINING DEVICES (G84600) | 184600) | | |
| Program Elements for Code B Items: | ió | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | 2 | | | | | 5 |
| Gross Cost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 15.2 | 1.3 | 1.1 | 0.0 | 0.0 | 17.8 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 15.2 | 1.3 | 1.1 | 0.0 | 0.0 | 17.8 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 15.2 | 1.3 | 1.1 | 0:0 | 0.0 | 17.8 |
| Fiyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |

Advanced Individual Training (AIT) for the Military Occupational Specialty (MOS) 12B Combat Engineer on Wolverine driver/operator mission functions. Mission functions will include, driving the vehicle and conducting gap crossing operations (e.g. launch and retrieve the bridge) - day/night and in all weather/environmental conditions. Each DESCRIPTION: The Wolverine (Heavy Assault Bridge) simulator is an institutional operator training system (near term implementation) and will evolve into a future unit collective training system (mid to far term) implementation. Five institutional operator simulator systems will be located and housed at Ft. Leonard Wood to accomplish simulator system will have the capability to train two Wolverine crews (4 MOS 12Fs) concurrently. The average student throughput is approximately 208.

JUSTIFICATION: The simulators will optimize training effectiveness at reduced institutional OPTEMPO costs and will minimize environmental impact to the installation.

| 866 | | UnitCost | \$000 | |
|--|-------|---------------|-------|---|
| February 1998 | | 'n | \$(| |
| Date: Feb | FY 99 | Oty | Each | |
| | | ost | 0 | 386 |
| :ed | | TotalCost | \$000 | |
| stem Ty | - | st | C | |
| Weapon System Type: | | UnitCost | \$000 | |
| × | FY 98 | Oth | ach | |
| | Ē | Н | Н | |
| 84600) | | TotalCost | 000\$ | |
| e: ICES (G | L | Н | | |
| nenclatur NG DEV | | UnitCost | \$000 | |
| Line Item Nomenclature: HAB TRAINING DEVICES (G84600) | | Ш | Ц | |
| P-1 Line Item Nomenclature: HAB TRAINING DEVICE | FY 97 | Qt | Each | |
| | | Sost | 0 | |
| | | TotalCost | 000\$ | |
| MBT | r | ost | 0 | |
| arial No: TRKD C | | UnitCost | \$000 | |
| Appropriation/ Budget Activity/Serial PROCUREMENT OF WPNS & TR VEHS / 1 / Tracked Combat Ve | 96 | Qty | | |
| Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD C VEHS / 1 / Tracked Combat Vehicle | | | | |
| Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | | TotalCost | 000\$ | |
| Appropriation/ Budget Activity/Sertice PROCUREMENT OF WPNS & TO VEHS / 1 / Tracked Combat / | | CD TC | | |
| | F | | H | |
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| nsis | | | | |
| eap Analy | l | ents | | |
| Exhibit P-5, Weapon WTCV Cost Analysis | VOTW. | Cost Elements | | ± |
| bit P | 3 | ost | | Mg W |
| MTC | | J | | ogram Till state og state og state og state og state og state og state og state og state og state og state og state og |
| - | | | | Gov't Program Mgmt |
| | | | | 05 |

| | | Exhibit P-4 | Exhibit P-40, Budget Ite | em Justification Sheet | ation Sheet | | | Date: | | February 1998 | | |
|--|--|-----------------|--------------------------|------------------------|---------------------------------|------------------------|--|----------------|---|---------------|-------------|------------|
| Appropriation / Budget Activity/Serial No: | il No: | | | | | P-1 Item Nomenclature: | ífe: | | | | | |
| PROCUREMENT | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combal Vehicles | OMBT VEHS/1/Tra | cked Combat Vehicle | 88 | | | | BRADLEY FVS T | BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500) | (GZ2500) | | |
| Program Elements for Code B Items: | ** | | | Code: | Other Related Program Elements: | am Efements: | | | | | | |
| | | | | ٧ | | 0203735A D | 0203735A D371 COMBAT VEHICLE IMPROVEMENT PROGRAM | LE IMPROVEMENT | PROGRAM | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 3.9 | 6.0 | 9.0 | 9.0 | 0.0 | 2.1 | 4.4 | 4.8 | 0.0 | 0.0 | 0.0 | 22.5 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 3.9 | 6.0 | 0.5 | 0.8 | 0.0 | 2.1 | 4.4 | 4.8 | 0.0 | 0.0 | 0.0 | 22.5 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 3.9 | 6.0 | 0.5 | 0.8 | 0.0 | 2.1 | 4.4 | 4.8 | 0.0 | 0.0 | 0.0 | 22.5 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |

DESCRIPTION:
Software upgrades to BFV Conduct of Fire Trainer (COFT)s, ODS COFTS, Precision Gunnery System, Bradley Advanced Training System, Bradley Desktop Trainer, and Maintenance Training Systems.

JUSTIFICATION:

Since training devices now function based on software which, as the systems are upgraded/modified, the training device software must be modified to provide adequate training for the soldier. Currently fielded training devices will be upgraded to support the BFVS as system enhancements and software maturation occurs. The average soldier sustainment throughput per year is approximately 3600 for the BFV Commanders and Gunners in the units who will be receiving training on these COFTS.

| | Exhibit P-4 | Exhibit P-40M Budget Item Justification Sheet | m Justifice | | | | Date | | February 1998 | | |
|---|--|---|-------------|--------------------------------|-----------------------|---------|----------------|---|---------------|-----|-------|
| Appropriation / Budget Activity/Serial No. PROCUREMENT OF WPA | gget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | acked Combat Vehicles | | | P-1 Item Nomenclature | | BRADLEY FVS TI | BRADLEY FVS TRAINING DEVICES (MOD) (GZ2500) | MOD) (GZ2500) | | |
| Program Elements for Code B Items | | | Code | Other Related Program Elements | m Elements | | | | | | |
| Description | | Fiscal Years | | | | | | | | | |
| | Classification | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | TC | Total |
| Jpgrades 513 | Operational | 0.0 | 0.8 | 0.0 | 2.1 | 4.4 | 4.8 | 0:0 | 0.0 | 0:0 | 12.1 |
| Totals | | 0.0 | 0.8 | 0.0 | 2.1 | 4.4 | 4.8 | 0.0 | 0.0 | 0.0 | 12.1 |
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Exhibit P-3a Individual Modification

| MODIFICATION TITLE (Cont): FINANCIAL PLAN: (\$ in Millions) | | | | | | , 100 | 513 | | | | | | | | | | | | |
|--|---------|---------|---------|--------------------------------|---------|--------|---------|---------|---------|-------------|---------|----------------|---------|----------|---------|-----|-------------|----|-------|
| FINANCIAL PLAN: (\$ in Millions) | | Sol | tware | Software Upgrades 1-96-05-4513 | es 1-9 | 6-05-4 | 2 | | | | | | | | | | | | |
| | | | | | | | | | | | l | | | | | | | | |
| | FY 1996 | FY 1996 | FV 1997 | 700 | FV 1998 | 800 | FV 1999 | 66 | FY 2000 | 9 | FY 2001 | - | FY 2002 | | FY 2003 | | 2 | ۲ | TOTAL |
| <u> </u> | δį | 69 | Oft. | 69 | Qty | 9 | oğ Y | t | οţὸ | t | οţλ | | Oty | \vdash | Qty \$ | aty | | αţ | 8 |
| EN | | | | 6 | | | | | | | | 9 | | | | | | | Ş |
| Kit Quantity Installation Kits | | | | | | | | , Ni | | 4. 4. | | 0 . | | | | | | | į |
| Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | | | |
| Equipment | | | | | | | | | | - | | | | | | | | | |
| Equipment, Nomecuning Engineering Change Orders | | | | | | | | | | | | | | , | | | | | |
| Data | | | | | | | - | | - | | | | | | | | | | |
| Training Equipment | | | | | | | | | | | | | | | | | | | |
| Support Equipment | | | | | | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | | | | | |
| Interim Contractor Support | | | | • | | | | | | | | | | | | | | | |
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| Installation of Hardware | | | | | | | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits | | | | | | | | | | | | | | | | | | | |
| FY 1997 Eqpt Kits | • | | | | | | | | | | | | | | | | | | |
| FY 1998 Eqpt Kits | | | | | | | | | | | | | | | | | | | |
| FY 1999 Eqpt Kits | | | | | | | | | | | | | | | | | | | |
| FY 2000 Eqpt kits | | | | | , | | | | | | | | | | | | | | |
| FY 2001 Eqpt kits | | | • | - | | | | | | | | | | | _ | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | | |
| FY 2003 Eqpt kits | - | | | | | | | | | | | • | | | | | | | |
| TC Equip-Kits | | | | | | | + | | | | | + | | | - | - | | | |
| Total Installment | | | | | | | | | | | | | | - | | - | | | |
| Total Procurement Cost | | | | 0.8 | _ | | | 2.1 | | 4.4 | | 4.8 | | | | | | | 12.1 |

| | | Exhibit P-4 | Exhibit P-40, Budget Ite | em Justifica | em Justification Sheet | | | Date: | Ţ | February 1998 | 8 | |
|---|---------------|-------------|--------------------------|--------------|---------------------------------|------------------------|---------|---|--------------|---------------|-------------|------------|
| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 Item Nomenclature: | re: | | | | | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Comt | PNS & TRKD CI | WBT VEHS/1/ | 7 Tracked Com | bat Vehicles | | | FIELD / | FIELD ARTILLERY AMMUNITION SUPPORT VEH (G80100) | IMUNITION SU | PORT VEH (G | 180100) | |
| Program Elements for Code B Items: | · · · | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | | | | 4 | | | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | 805 | | 48 | 48 | 36 | | | | | | | 937 |
| Gross Cost | 408.9 | 0.0 | 90.09 | 58.3 | 39.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 556.4 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 408.9 | 0.0 | 50.0 | 58.3 | 39.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 556.4 |
| Initial Spares | 1.8 | | | | | | | | | | | 1.8 |
| Total Proc Cost | 410.7 | 0.0 | 20.0 | 58.3 | 39.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 558.2 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | 0.5 | | 1.0 | 1.2 | 1.1 | | | | | | | 9. |

The Field Artillery Ammunition Support Vehicle (FAASV) is a full tracked armored ammunition vehicle with onboard Ammunition Handling Equipment (AHE). The M992 is overhead ballistic protection between the FAASV and the Howitzer during loading operations. A conveyor is used for passing prepared projectiles and propellant charges from the FAASV into the supported Howitzer. Modifications to the rear door, conveyor, and propellant canister racks is incorporated to make the FAASV compatible with the M109A6 Paladin. The FAASV has the mobility equivalent to its supported Self-Propelled Howitzers. The FAASV is designed to operate in all geographical areas and unimproved, and/or cross-country roads. Armor shielding provides necessary ballistic protection. An armored rear door hinges upward and outward to provide the used to support the M109 Self-Propelled Howitzer (SPH). The FAASV is capable of transporting a minimum 12,000 pounds of 155mm ammunition over improved, climatic conditions in which the Howitzer operates. The M992A2 was type classified standard in July 1994.

JUSTIFICATION:

DESCRIPTION:

Extinguisher System. The FAASV is a companion vehicle to, and is required to support the M109A6 Self-Propelled Howitzer (SPH). It also preserves a warm mobilization over the current M548, which is being replaced on a one-for-one basis. Thus, high artillery firing rates can be maintained while minimizing casualties. The FAASV has a The Carrier, Ammunition, Tracked (155mm, M992A2) provides a significant Improvement to the Army's offensive ground combat capability. The FAASV provides 100% increase in armor protection for the crew and ammunition, an 80% increase in Ammunition Handling Equipment (AHE) capability and a 50% increase in vehicle mobility ventilated face piece Nuclear, Biological, Chemical(NBC) system, a Simplified Test Equipment - Internal Combustion Engine (STE-ICE), and an Automatic Fire base for the SPH with the only tooled and experienced producer.

| February 1998 | | | UnitCost | \$000 | |
|---|------------------------------------|-------|---------------|-------|---|
| Date: Febru | 20,712 | FY 99 | ģ | Each | |
| | | | TotalCost | \$000 | |
| Weapon System Type: | | | UnitCost | \$000 | 748 29 3 14 14 |
| | | FY 98 | Qţ | Each | 98 9 98 99 98 |
| TION SUPPORT | | | TotalCost | \$000 | 26925 1040 115 516 5933 1035 71 3240 3234 1220 350 840 |
| P-1 Line Item Nomenclature: FIELD ARTILLERY AMMUNITION SUPPORT | VEH (G80100) | | UnitCost | \$000 | 29 3 16 16 |
| P-1 Line Item FIELD ARTI | | FY 97 | Off O | Each | 8 4 4 8 8 8 |
| | | | TotalCost | \$000 | 31224 1386 1389 4259 95 77155 8589 1901 332 1061 |
| Serial No: & TRKD CMBT | bat Vehicles | | UnitCost |)OO\$ | |
| get Activity/ | acked Com | FY 96 | Qty | Each | |
| Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT | VEHS / 1 / Tracked Combat Vehicles | | TotalCost | \$000 | 38361 1334 144 895 560 248 600 600 600 49988 |
| | ٦ | ₽ | S | | ₹ |
| Exhibit P-5, Weapon | | WTCV | Cost Elements | | 1. Basic Vehicle 2. Engine 3. Roadwheels 4. Track 5. Bil/COEI 6. Government Furnished Materiel 7. Engineering - Government 9. Engineering - Contractor 10. Project Management Administration 11. Systems Testing 12. Fielding |

| | | | | | | | | Date: | | |
|---|---|---------------------|-----------------|--------------------------|-----------------------------|---------------|---|---------|---------------|-------------------|
| Exhibit F | Exhibit P-5a, Budget Procurement History and Planning | listory ar | nd Planning | | | | | Œ | February 1998 | 98 |
| Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat | | Weapon System Type: | т Туре: | | P-1 Line Item Nomenclature: | domenclature: | | | | |
| Vehicles | | | | | LIEF | AMILLENI | FIELD ANTIELERY AMMONITION SUFFURI VEH (980100) | יייטקיי | 01000) 11 | 3 |
| WBS Cost Elements: | Contractor and Location | Contract Method | Location of PCO | Award Date Date of First | Date of First | ΔITA | Unit Cost | Specs | Date Revsn | RFP Issue Date |
| Fiscal Years | | and Type | | | Delivery | Each | \$000 | Now? | Avail | |
| 1. Basic Vehicle FY 96 | (Inited Defense (LIDI P-GSD) | SS/FFP | TACOM | 96-Int. | Mav-98 | 48 | 799 | | | |
| | York, PA | | | 3 | 200 | 2 | 3 | | | |
| FY 97 | United Defense (UDLP-GSD) | Option TACOM | TACOM | Jan-97 | Nov-98 | 48 | 651 | | | |
| FY 98 | York, PA United Defense (UDLP-GSD) | SS/FFP TACOM | TACOM | Apr-98 | Mav-99 | 36 | 748 | | | Jan-98 |
| | York, PA | | | | | | | | | |
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| FY 97 | Detroit Diesel | C/FFP | TACOM | Sep-97 | May-98 | 48 | 16 | | | |
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| | | Exhibit P-4 | Exhibit P-40, Budget Ite | em Justification Sheet | ation Sheet | | | | | February 1998 | | |
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| PROCUREMENT | T OF WPNS & TRKD | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicle | icked Combat Vehick | SS. | | | | M1A2 TANK | M1A2 TANK TRAINING DEVICES (GB1302) | S (GB1302) | | |
| Program Elements for Code B Items: | . 26 | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
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| Gross Cost | 22.9 | 16.8 | 6.1 | 12.5 | 13.1 | 13.4 | 8.2 | 10.8 | 12.1 | 12.4 | 27.70 | 100.4 |
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| Initial Spares | | | | | | | | | | | | |
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| STOCKET ON The Armille of MAAO Training Aids Doubs | , 4 | A A Training | Aide Davice | Simulator | s and Simila | tions (TADS | 3) will replicat | e actual tan | k performano | e without inc | se Simulators and Simulations (TADSS) will replicate actual tank performance without incurring the much higher | ch higher |

DESCRIPTION: The family of M1A2 Training Aids, Devices, Simulators and Simulations (TADSS) will replicate actual costs of operating the tank itself.

- Advance Gunnery Training System (AGTS) These are precision gunnery trainers which provide realistic commander and gunner training under varying scenarios.
- Trainer (HOT); Hull Electrical Diagnostic/Troubleshooting (D/T) Trainer; Turret/Fire Control D/T Trainer; and Direct Support Electrical System Test Set Line Replaceable - Maintenance Trainers - These systems provide training in essential unit and direct support/general support tasks. There are four different trainers: M1A2 Hands-on-Unit (DSESTS LRU) simulators. The students (approximately 600/yr) will learn about the sub-systems and procedures for troubleshooting and fault isolating the tank system. The intended sites are Ft. Knox and Aberdeen Proving Grounds.
- SEP Integration This funding provides for integration of SEP improvements into the various training devices impacted by those changes on the tank.

JUSTIFICATION: Fielding of the M1A2 Main Battle Tank requires concurrent fielding of a training support package. It is not cost effective to provide effective, realistic training on the M1A2 tanks through the operational use of the vehicle. Realistic training on a family of training devices simply makes better economic sense. Budget Item Justification Sheet

Exhibit P-40,

| Exhibit P-5, Weapon WTCV Cost Analysis | ₹ | Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & THKD CMBT VFHS / 1 / Tracked Combat Vehicles | get Activity/9 OF WPNS | Serial No: & TRKD CMBT at Vehicles | | P-1 Line Iten M1A2 TAN | P-1 Line Item Nomenclature: M1A2 TANK TRAINING DEVICES (GB1302) | ICES (GB1302) | > | Weapon System Type: | | Date: Febru | February 1998 |
|---|---|--|---------------------------|--|-------------|---------------------------|--|---------------------|-------|---------------------|--------------------|----------------|---------------|
| VOTW | ₽ | | FY 96 | | | FY 97 | | | FY 98 | | | FY 99 | |
| ents | 8 | TotalCost | Qfy | UnitCost | TotalCost | Oth | UnitCost | TotalCost | Oty | UnitCost | TotalCost | Qty | UnitCost |
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| Advance Gunnery Training System (AGTS) 1) Production 2) Government Support 3) First Article Test 4) Non Recurring Cost | ⋖ | 1819 206 268 2907 | | | 5684 550 | | | 7700 550 1768 | | | 8800 400 300 | | |
| SUBTOTAL | | 5200 | N | 2600 | 7405 | ဖ | 1234 | 10018 | 7 | 1431 | 9500 | 80 | 1188 |
| M1A2 Maintenance Trainers 1) Production 2) Government Support 3) First Article Test 4) Non Recurring Cost | ∢ | 750 | | | | | | | | | | W | |
| SUBTOTAL | | 933 | VAR | VAR | | | | | | | | | |
| M1A2 Non System Integration Kits 1) Production 2) Government Support 3) First Article Test 4) Non Recurring Cost | < | | | | 1779 | | | | | | | - | |
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| M1A2 Software Upgrades 1) Production 2) Government Support 3) First Article Test 4) Non Recurring Cost | ∢ | | | | 100 | | | 100 | | | 100 | | |
| SUBTOTAL | | | | | 480 | VAR | VAR | 925 | VAR | VAR | 925 | VAR | VAR |
| SEP Integration 1) Production 2) Government Support 3) First Article Test 4) Non Recurring Cost | < | | | | 2720 | | | 633 50 1450 | | | 2836 50 100 | | |
| SUBTOTAL | | | | | 2720 | VAR | VAR | 2133 | VAR | VAR | 2986 | VAR | VAR |
| TOTAL | | 6133 | | | 12546 | | | 13076 | | | 13411 | | |

| Exhibit F | Exhibit P-5a, Budget Procurement History and Planning | listory ar | nd Planning | | | | | Date: | February 1998 | |
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| PROCUREMENT OF WPNS & THKD CMBT VEHS / 1 / Tracked Combat. Vehicles | | | | | | M1A2 TAN | M1A2 TANK TRAINING DEVICES (GB1302) | CES (GB1: | | |
| WBS Cost Elements: | Contractor and Location | Contract Method | Location of PCO | Award Date | Date of First | ντα | Unit Cost | Specs | Date F Revsn | RFP Issue Date |
| Fiscal Years | , | and Type | | | Delivery | Each | \$000 | Now? | Avail | |
| Advance Gunnery Training System (AGTS) FY96 | Lockheed Martin, Orlando, FL | C-FPI | STRICOM | Feb-96 | 76-Inc | 2 | 2600 | Yes | å | ΑN |
| FY97 | Lockheed Martin, Orlando, FL | C-FPI | STRICOM | Feb-97 | Apr-98 | 9 | 1234 | Yes | ٤ | Y. |
| FY98 FY99 | Lockheed Martin, Orlando, FL Lockheed Martin, Orlando, FL | | STRICOM | Mar-98 Jan-99 | Mar-00 Mar-01 | 8 / | 1431 | | | e e Z Z |
| | | | | | | | | | | |
| M1AZ Maintenance Trainers FY96 | Contraves, Tampa, FL | C-FFP | STRICOM | Mar-96 | Mar-98 | VAR | VAR | Yes | ş | A/N |
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| M1A2 Non System integration Kits 1/ FY97 | Various | C-FFP | STRICOM | Mar-97 | Jun-98 | VAR | VAR | 2 | 2 | ¥ X |
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| M1A2 Software Upgrades 2/ | | | | 1 | | | | | | |
| FY97 EV98 | Various | 7 7 | STRICOM | Dec-96 | Dec-97 | VAR | VAR | 2 2 | 2 2 | ∀ |
| FY99 | Various | C-FF | STRICOM | Dec-98 | Dec-99 | VAR | VAR | 2 | 2 | Z Z |
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| SEP Integration | | | | | | | | | | |
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| REMARKS: 1/ M1A2 Non-System Integration Kits provide system unique kits allowing the installation of Non-System Training Devices, such as Thru Sight Video (TSV), Tank Weapon Gun | provide system unique kits allowing the | ne installatic | on of Non-System Training De | evices, sucl | as Thru S | Sight Video | (TSV), Tank V | Veapon | Gun | |

1/ M1A2 Non-System Integration Kits provide system unique kits allowing the installation of Non-System Training Devices, such as Thru Sight Video (TSV), Tank Weapon Gun Simulation System (TWGSS), Precision Range Integrated Maneuver Exercise (PRIME), and Multiple Integrated Laser Engagement System (MILES) onto the M1A2 tank.

^{2/} M1A2 trainer software upgrades update M1A2 training devices to keep pace with changes in the M1A2 tank.

| FY 98 / 99 BUDGET PRODUCTION SCHEDULE | UCTION | SCH | EDULI | 111 | | | - | tem r | omer | P-1 Item Nomenclature: M1A2 | e: R2 TAN | ature: M1A2 TANK TRAINING DEVICES (GB1302) | NING | DEVIC | ES (G | B130 | <u>.</u> | | | | | Date: | | | Feb | February 1998 | 868 | | |
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| | | Exhibit P-4 | Exhibit P-40, Budget Item Justification Sheet | em Justifica | ation Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 Item Nomenclature: | .e: | | | | | |
| PROCUREMEN | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | CMBT VEHS/1/Tra | icked Combat Vehicle | ş | | | | COMMAND | COMMAND & CONTROL VEHICLE (984200) | .E (G84200) | | |
| Program Elements for Code B Items: | 3 | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | | | | ∢ | | PE 0604640A | | Advanced Command and Control Vehicle | I Vehicle | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | 2 | 5 | 10 | 22 | 22 | 22 | 37 | 316 | 439 |
| Gross Cost | 0.0 | 0.0 | 0.0 | 48.8 | 30.3 | 44.2 | 74.8 | 77.4 | 71.3 | 121.8 | 936.6 | 1405.2 |
| Less PY Adv Proc | | | | | | | | 6.5 | 10.1 | 19.0 | 116.5 | 152.1 |
| Plus CY Adv Proc | | | | | | | 13.5 | 12.1 | 10.0 | | 116.5 | 152.1 |
| Net Proc (P-1) | 0.0 | 0.0 | 0.0 | 48.8 | 30.3 | 44.2 | 88.3 | 83.0 | 71.2 | 102.8 | 936.6 | 1405.2 |
| Initial Spares | | | | | 0.9 | 2.5 | 2.6 | 0.7 | 1.5 | 1.3 | | 9.6 |
| Total Proc Cost | 0.0 | 0.0 | 0.0 | 48.8 | 31.2 | 46.7 | 6.06 | 83.7 | 72.7 | 104.1 | 936.6 | 1414.7 |
| Fiyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | 9.8 | 6.2 | 4.7 | 4.1 | 3.8 | 3.3 | 2.8 | 3.0 | 3.2 |
| 1 | | | 0.007 | | | | | | 00 | | | |

support command and control on the move. C2V was developed in response to lessons learned during Operation Desert Storm. It supports the Army DESCRIPTION: The Command and Control Vehicle (C2V), provides a fully tracked, armored vehicle based on Bradley A2 and MLRS designs and components. It will ensure a mobile, responsive, and survivable command and control capability for the heavy force, and it provides the platform to Digitization Effort, incorporating communications and electronic systems compatible with Army Tactical Command and Control systems (ATCCS).

JUSTIFICATION: This program was initiated as a result of deficiencies in existing command and control vehicles identified during Operation Desert Storm. FY99 is the 3rd year of low rate initial production.

A four year multi-year contract is planned for FY00 through FY03.

| Exhibit P-40C Budget Item Justification Sheet | tem Justific | ation Sheet | Date | February 1996 |
|---|--------------|---|--|------------------------------------|
| Appropriation / Budgst Activity/Serial No. | | | P-1 Item Nomenclature | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | Sg | | | COMMAND & CONTROL VEHICLE (G84200) |
| Program Elements for Code B Items | Code | Other Related Program Elements | am Elements | |
| | A | | PE 0604840A Advanced Command and Control Vehicle | ehkde |
| C2V Advanced Procurement Detail (in Mils): | Fiscal Year | 2000 20 | 2001 2002 2003 | |
| FY2000 For FY2001 (memo) FY2000 For FY2002 (memo) FY2001 (memo) FY2001 For FY2002 (memo) FY2001 For FY2003 (memo) FY2002 For FY2003 FY2002 For FY2003 FY2003 (memo) | | က မ 4. 4. 6. 6. 6. 7. 6. 7. 6. | -10.1 10.0 -19.0 | |

| Exhibit P-5, Weapon WTCV Cost Analysis | | Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT | get Activity/S | Serial No: & TRKD CMBT | | P-1 Line Item COMMAND | P-1 Line Item Nomenclature: COMMAND & CONTROL VEHICLE (G84200) | HCLE (G84200) | | Weapon System Type: | | Date: Febru | February 1998 |
|---|-----|---|----------------|---------------------------|-------------|--------------------------|---|---------------|------------------|---------------------|-----------|----------------|---------------|
| | ٤ | VEHS / 1 / Tracked Combat Vehicles | acked Comb | at Vehicles | | EV 07 | | | - C V 20 | | | 20.75 | |
| WICV Coet Elements | ⊇ E | TotalCost | 2 AC | UnitCost | TotalCost | A O N | InitCost | TotalCost | 2 2 2 3 | UnitCost | TotalCost | 26 AC | UnitCost |
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| r - ' | | | | | 12394 | | 2479 | 14331 | ı n | 2866 | 23059 | 0+ | 2306 |
| I ransmission Primary Power Unit Froironmental Control Unit | | | | | 299 | o. | 2 | es. | Ω. | 148 | 1834 | | 183 |
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| (VIICS) | | | | | 14705 | | | 16673 | | | 94550 | | |
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| 10. Tooling 11. FAT/Qual of Vendors | | | | | | | | | | | | | |
| SUBTOTAL | | | | | | | | | | | | | |
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| 16. Project Mariagement Administration 16. Petings Consort | | | | | 170 | | | 453 | | | 503 | | |
| 17. Software Support 18. Logistics | | | | | 1996 | | | 1721 | | | 807 | | |
| 19. Cummins Engine Life-of-Type (LOT) Buy | | | | | 21950 | 439 | 20 | | | | | | |
| TOTAL | | | | | 48766 | | | 30262 | | | 44241 | | |
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| Exhibit | Exhibit P-5a, Budget Procurement History and Planning | listory ar | nd Planning | | | | | Date: Fe | February 1998 | |
|---|--|--------------------------------|-------------------------|----------------------------|----------------------------|--|---|------------------------|---------------------|-------------------|
| Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & THKD CMBT VEHS / 1 / Tracked Combat | | Weapon System Type: | п Туре: | | P-1 Line Item I | P-1 Line Item Nomenclature: COMMAND | menclature: COMMAND & CONTROL VEHICLE (984200) | ICLE (G84) | (00) | |
| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Each | Unit Cost | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| 1. Vehicle FY 97 FY 98 FY 99 | UDLP, York, PA. UDLP, York, PA. UDLP, York, PA. | SS/FFP SS/FFP SS/FFP | TACOM TACOM TACOM | Dec-96 Dec-97 Dec-98 | Apr-98 Apr-99 Apr-00 | \$ \$0 | 2479 2866 2306 | | 222 | |
| Transmission FY 97 FY 98 FY 99 | GDLS, Muskegon, MI. GDLS, Muskegon, MI. GDLS, Muskegon, MI. | SS/FFP SS/FFP SS/FFP | TACOM TACOM TACOM | Mar-97 Mar-98 Mar-99 | Apr-98 Apr-99 Apr-00 | £ 5 0 | 113 148 149 | | 2 2 2 2 | |
| 4. Primary Power Unit FY 99 | TBD | TBD | TACOM | Dec-98 | Apr-00 | 10 | 183 | | 2 | ** |
| 5. Environmental Control Unit FY 99 | TBD | TBD | TACOM | Dec-98 | Apr-00 | 10 | 14 | | S. | ***** |
| 6. Bio Chem Unit FY 99 | TBD | TBD | TACOM | Dec-98 | Apr-00 | 10 | 114 | | °, | |
| 8. Mission Module Components FY 97 FY 98 FY 99 | L3 Comm. Sys, Camden,NJ L3 Comm. Sys, Camden,NJ L3 Comm. Sys, Camden,NJ | FP-Op FP-Op FP-Op | CECOM CECOM CECOM | Feb-97 Dec-97 Dec-98 | Apr-98 Apr-99 Apr-00 | 5 10 | 255 231 191 | | 2 2 2 | |
| Veh Inter/Intra Communication System (VIICS) FY 97 FY 98 FY 99 | L3 Comm. Sys, Camden, NJ L3 Comm. Sys, Camden, NJ L3 Comm. Sys, Camden, NJ | 4 4 4 | OECOM CECOM CECOM | Feb-97 Dec-97 Dec-98 | Apr-98 Apr-99 Apr-00 | 5 10 | 56 51 47 | | 888 | |

L3 Comm. Sys, Camden, NJ - L3 Communications Systems, Camden, NJ FY98: High Vehicle and Transmission cost reflects reduced business base. FY99: Breakout of Primary Power Unit, Environmental control Unit, and Bio Chem Unit. REMARKS:

| FY 98 / 99 BUDGET PRODUCTION SCHEDULE | CTIONS | CHE | DULE | | | <u>-</u> | Ten | P-1 Item Nomenclature: COMM | CO | ITB: | DENUTE: COMMAND & CONTROL VEHICLE (G84200) | NTRC |)L VER | ICLE | (G842) | (S | | | | | Date: | | | ű | ebruar | February 1998 | _ | | |
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| FY 98 / 99 BUDGET PRODUCTION SCHEDULE | JCTION | SCHE | DULE | | | | | | COM | COMMAND & CONTROL VEHICLE (G84200) | CONT | ROL V | HICL | E (G84 | 500) | | | | | i | | u. | February 1998 | 1998 | | |
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Item No. 8 Page 8 of 9 67

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| | | Exhibit P-4 | 0, Budget It | Exhibit P-40, Budget Item Justification Sheet | tion Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 Item Nomenclature: | :0: | | | | | |
| PROCUREMENT | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | CMBT VEHS/1/Tra | cked Combat Vehicl | 68 | | | | CA | CARRIER, MOD (GB1930) | 90) | | |
| Program Elements for Code B Items: | 33 | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | | | | ∢ | | | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 566.7 | 53.1 | 43.7 | 44.7 | 39.4 | 54.5 | 59.4 | 53.6 | 73.6 | 86.1 | 816.3 | 1890.9 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 566.7 | 53.1 | 43.7 | 44.7 | 39.4 | 54.5 | 59.4 | 53.6 | 73.6 | 86.1 | 816.3 | 1890.9 |
| Initial Spares | 3.5 | | | | | | | | | | | 3.5 |
| Total Proc Cost | 570.2 | 53.1 | 43.7 | 44.7 | 39.4 | 54.5 | 59.4 | 53.6 | 73.6 | 86.1 | 816.3 | 1894.4 |
| Fiyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |

smoke, mortar, cargo carrier and command & control systems. The fleet is required for the next 20 plus years and must be modified to increase mobility, survivability and DESCRIPTION: The M113 Family of Vehicles (FOV) consists of over 18,000 vehicles, 16 different variants/platforms, in service in U.S. Army units. The M113 FOV is almost one half of the tracked combat vehicle fleet in a mechanized infantry or armor heavy division. The family provides transport for troops, anti-tank, fire direction, to install operational enhancements. Operation Desert Storm (ODS) highlighted the need to improve the mobility and survivability, chemical protection, driver's night vision, fuel system for Command Post Auxiliary Power Units (APU) for the fleet.

JUSTIFICATION

- and BFVS fleet. Internal spall suppression liners, external armored fuel tanks and external armor mounting provisions increase crew survivability. The intent is to convert coupled with a new transmission. This powertrain replaces less reliable components and results in reduced O&S costs while increasing mobility to keep up with the M1 1. BLOCK 1 (A3) MODIFICATION: Provides improvements to enhance mobility and crew survivability. Provides a new 275 Horse Power (HP) turbocharged engine vehicles at depot or contractor facilities to the A3 configuration, in the Department of the Army Master Priority List (DAMPL) sequence.
- 2. CREW CHEMICAL PROTECTION: Provides mounting provisions and hardware and the complete M8, M13 or M14 Nuclear, Biological and Chemical (NBC) System tailored for installation into each M113 variant. The installed system includes blowers, filters, and air line heaters for use with crew issued ventilated face masks. The configuration. The intent is to install the complete system during future A3 conversions. Vehicle conversions will be done in Department of the Army Master Priority List installed system permits vehicle operation in an NBC environment. Prior to FY98 only mounting provisions were installed during vehicle conversions to the A3 (DAMPL) sequence.

Budget Item Justification Sheet

Exhibit P-40,

| | Exhibit | Exhibit P-40M Budget Item Justification Sheet | em Justifica | ation Sheet | | | Date | | February 1998 | | |
|---|--|---|--------------|--------------------------------|-----------------------|---------|---------|-----------------------|---------------|----------|---------|
| Appropriation / Budget Activity/Serial No. PROCUREMENT OF | dget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combal Vehicles | 1 / Tracked Combat Vehicles | | | P-1 Item Nomenclature | 92 | 5 | CARRIER, MOD (GB1930) | (01 | | |
| Program Elements for Code B Items | B Items | | Code | Other Related Program Elements | ım Elements | | | | | | |
| Description | | Fiscal Years | | | | | | | | | |
| OSIP NO. | Classification | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | TC | Total |
| Crew Chemical Protection | Protection Oper Canability | 2 | 7 | + | Ö | 7.0 | | 10 | + | 91.9 | 080 |
| Block 1 | Chei Capaciiny | | 2 | 2 | 20 | | | 2 | 2 | <u>i</u> | |
| 1-84-05-4026 | Oper Capability | 276.9 | 43.7 | 38.4 | 53.6 | 58.7 | 52.9 | 72.6 | 85.1 | 795.1 | 1,477.0 |
| Totals | | 277.4 | 44.7 | 39.4 | 54.5 | 59.4 | 53.6 | 73.6 | 86.1 | 816.3 | 1,505.0 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| Cobinit D. O. de Individual Modifice | 92 | n Aididy | | ٠ | | | | | | of 6 | Item No. 9 Page 3 of 6 | 0.9 F | Item N | | | | | | | | | | |
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| | | | 200 | October 98 | | 888 | | | | 9 | October 98 | | FY 1998 | | | | | | /66 | FY 1997 | | | Delivery Date: |
| | | | 66 6 | January 99 | ب ج | FY 1999 | ĭ ì | | | 86 | January 98 | -5 (| FY 1998 | È i | | | | | 266 | FY 1997 | | | Contract Dates: |
| | Months | - | ME | PRODUCTION LEADTIME: | TION | SDOC | A E | 2 | Months | က | | TIME | ADMINISTRATIVE LEADTIME: | ATIVE | NISTR | ADMII | | Depot/Contractor | ot/Cor | Dep | ä | ENTATI | METHOD OF IMPLEMENTATION: |
| 4711 | | | 3391 | | | | 9 | | | 9 | 09 | 9 | 60 | 09 | | 9 | 51 | 51 | 51 | | 50 | 46 | Outputs |
| 4711 | | | 3391 | Г | _ | | _ | | 9 | 99 | 99 | 9 | 8 | 90 | | 8 | 8 | 51 | 51 | | 51 | 20 | nouts |
| | | Complete | Co | 4 | 3 | 2 | F | 4 | | 9 | 2 | - | 4 | 9 | | 2 | = | 4 | 8 | | 2 | - | |
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| 45 46 | \$ 4 1 | 45 | 4 2 | 54 | 4 7 | 54 | 09 09 | | 9 | 90 | 9 | | | | | | | | | | | | Inputs |
| 3 4 | 2 | 티 | 4 | က | 7 | ᅱ | 4 | 3 | | 2 | - | 4 | 3 | 2 | | | 4 | 3 | 2 | | - | Totals | |
| 001 | FY 2001 | | | 8 | FY 2000 | | \vdash | | FY 1999 | ¥ | | | | FY 1998 | Į. | | | | FY 1997 | Ĺ | | Pr Yr | Installation Schedule: |
| | | | | | | | | 92 | February 92 | Febr | | | | | | | | | | | | | TDP Available: |
| | | | | | | | | SHE | MPL | ACCOMPLISHED | 4 | | PLANNED | 집 | ġ | WILES ONES. | | | | בי ה | |) NO 0 | DEVELOPMENT STATUS/MAJOH DEVELOPMENT |
| | | | | | | | | | | | | | | | | | 1 | | | | | | · |
| re and the complete M8, M13 or M14 Nuclear, Biological and Chemical (NBC) System tailored for stalled system include blowers, filters, air line heaters and hoses for use with crew issued ventilated vehicle operation in an NBC environment. Prior to FY 98 only mounting provisions were installed guration. The intent is to install complete system during future A3 conversions. Vehicle conversions Master Priority List (DAMPL) sequence. | e and the complete M8, M13 or M14 Nuclear, Biological and Chemical (NBC) System tailored for stalled system include blowers, filters, air line heaters and hoses for use with crew issued ventilat vehicle operation in an NBC environment. Prior to FY 98 only mounting provisions were installed guration. The intent is to install complete system during future A3 conversions. Vehicle conversio Master Priority List (DAMPL) sequence. | Systen ew iss ions w Vehic | JBC) S with cr provisi | cal (N use v uting p | hemi es for mour A3 cc | and C d hose s only uture | gical (rs and ry 98 | Biolog leater or to F m dur | lear, I line h . Pric syster | t Nuc s, air iment olete ice. | re and the complete M8, M13 or M14 Nu stalled system include blowers, filters, a vehicle operation in an NBC environme guration. The intent is to install complet Master Priority List (DAMPL) sequence. | 113 o wers, 3C er nstall | M8, Ne blo le blo an NE an NE s to it | nclud nclud on in a stent i | comp tem i eratic The in ority I | d the d sys le op on. T | e and staller vehic uration | dwar ne ins mits onfig | thar it. The n per A3 c he A | s and arian /sten o the | ision 113 v ed sy ed sy ons to tmen | install nversic | Provides mounting provisions and hardware and the complete M8, M13 or M14 Nuclear, Biological and Chemical (NBC) System tailored for installation into each M113 variant. The installed system include blowers, filters, air line heaters and hoses for use with crew issued ventilated face masks. The installed system permits vehicle operation in an NBC environment. Prior to FY 98 only mounting provisions were installed during vehicle conversions to the A3 configuration. The intent is to install complete system during future A3 conversions. Vehicle conversions to be done in the Department of the Army Master Priority List (DAMPL) sequence. |
| | | | | | | | | | | | | | | | | | - | | | | | | |

February 1998

INDIVIDUAL MODIFICATION

Crew Chemical Protection 1-91-05-4311

AODELS OF SYSTEMS AFFECTED: M113A3, M577A3, M1068A3

AODIFICATION TITLE:

| | | | | | NDIS | INDIVIDUAL MODIFICATION | MODIFIC | SATION | | | | | | | | Date | | February 1998 | 1998 | Γ |
|--------------------------------------|-----------|----------|---------------|-----|----------|-------------------------|----------|--------|---------|-----|---------|-----|---------|-----|-----|---------|------|---------------|-----------|------|
| MODIFICATION TITLE (Cont): | | Crew | Crew Chemical | | otection | Protection 1-91-05-4311 | -05-43 | _ | | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | FY 1996 | [| | | | | | | | | | | | | | | | | | |
| | and Prior | Н | FY 1997 | 7 | FY 1998 | 8 | FY 1999 | 66 | FY 2000 | 00 | FY 2001 | 100 | FY 2002 | 005 | FY; | FY 2003 | TC | 0 | TOTAL | Į. |
| | λĵ | \$ | δţ | \$ | οţὸ | \$ | ð | €9 | λį | 69 | ģ | 49 | ð | €9 | δ | €9 | QtA | \$ | Qţ | ↔ |
| RDT&E PROCUREMENT Kit Quantity | | | | | 240 | | 216 | | 181 | | 203 | | 240 | | 240 | | 3391 | | 4711 | _ |
| Installation Kits | | | | · | | 9.0 | | 9.0 | | 0.5 | | 9.0 | | 0.8 | | 0.8 | | 16.9 | - | 20.8 |
| Equipment | | | | | | | | | · | | | | • | | | | | | | |
| Equipment, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Data | | 0.5 | | 1.0 | | 0.4 | | | | | | | | | | | | | , ,,, e.u | 6. |
| Training Equipment | | | | | | | | | | | | | | | | | | | | |
| Support Equipment | | | | | | | | | | | | | | | | | | | | |
| Other Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | - | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | - | | | | | | | ., | | | | | | | | | |
| | | | | | | | | | | | | | | | | | - | , | | |
| cacabach to acitalistant | | | | | | | | | | | | | | | | | | | | |
| FY 1996 & Prior Foot Kits | | | | | | | | | | | | | | | | | | | | - |
| FY 1997 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 1998 Eqpt Kits | | | | | | | 240 | 0.3 | | | | | | | | | | | 240 | 0.3 |
| FY 1999 Eqpt Kits | | | | | | | | | 216 | 0.2 | | | | | | | | | 216 | 0.5 |
| FY 2000 Eqpt kits | | | | | | | | | | | 181 | 0.1 | | | | | | | 181 | 0.1 |
| FY 2001 Eqpt kits | | | | | | | | | | | | | 203 | 0.5 | | | | | 203 | 0.5 |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | 240 | 0.2 | | | 240 | 0.5 |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | 240 | 0.2 | 240 | 0.2 |
| TC Equip-Kits | | \dashv | - | + | + | + | \dashv | | | | | | | | | | 3391 | 4.1 | 3391 | 4.1 |
| Total Installment | | - | + | + | - | + | 240 | 0.3 | 216 | 0.2 | 181 | 0.1 | 203 | 0.2 | 240 | 0.2 | 3631 | 4.3 | 4711 | 5.3 |
| Total Procurement Cost | | 0.5 | | 1.0 | | 1.0 | | 6.0 | | 0.7 | | 0.7 | | 1.0 | | 1.0 | | 21.2 | | 28.0 |

| | | | | | | INDIV | IDUAL ! | INDIVIDUAL MODIFICATION | ATION | | | | | | | Date | | February 1998 | 8661 | П |
|---|-----------------------|-----------------|----------------------|----------------|----------|---------|-------------------|-------------------------|----------|--------------------------|---------------------|---------|----------|------------|--------------------------|---|---|-------------------|--------------|----------------|
| MODIFICATION TITLE: | E: Block | k 1 1- | Block 1 1-84-05-4026 | 4026 | | | | | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: M113A2, M577A2, M981, M1059, M1064, M1068, OSV, M58 | MS AFFEC | TED: | M113A | , M577 | A2, M98 | 1, M105 | 9, M106 | 4, M106 | 3, OSV, | M58 | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | TIFICATIO | ż | | | | | | | | | | | | | | | | | | |
| Provides improvements to enhance mobility and crew survivability. Provides a new 275 Horse Power (HP) turbocharged engine coupled with | ements i | to ent | rrain i | mobili | | crew s | urvival le com | oility. P | rovides | s a new | / 275 F | Horse L | Power (| (HP) tu | irboch: | and crew survivability. Provides a new 275 Horse Power (HP) turbocharged engine coupled with a less reliable components and results in reduced O&S costs while increasing mobility to keep up | ngine | couple v to ke | d with | ๗ |
| with the M1 and BFVS fleet. Internal spall suppression liners, external armored fuel tanks and external armor mounting provisions increase | BFVS fi | eet. I | ntern | l spal | suppr | ession | liners, | extern | al armo | ored fu | el tank | sand | externs | l armo | r mou | nting pr | ovisio | ns incr | ease | |
| crew survivability. The intent is to convert vehicles at depot or contractor facilities to the A3 configuration, in the Department of the Army Master Priority List (DAMPL) sequence. | y. The ir ist (DAN | ntent 4PL) s | is to c seque | onvert nce. | vehic | es at c | epot o | r contra | ictor fa | cilities | to the | A3 cor | nfigurat | ion, ii | the De | əpartme | ent of t | he Arn | ≥ | |
| | | | | | | | | | | | | | | | | | | | | 1000 |
| | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: | TUS / MA. | JOR D | EVELO | PMENT | MILES | TONES | | | | | | | | | | | | | | |
| | | | | | | | | PLANNED | ᇜ | ACC | <u>ACCOMPLISHED</u> | SHEI | ام | | | | | | | |
| IPR Production Decision: | Jecision: | 0 | | | | | | | | Ž | May 86 | | | | | | | | | |
| TDP Available: | | | | | | | | | | Ju | June 86 | | | | | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | | | | | |
| | Pr Yr | | FY 1997 | 797 | - | | FY 1998 | 80 | | E | FY 1999 | | | FY 2000 | 000 | | | FY 2001 | 9 | |
| | Totals | ٦ | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 , | 4 | 2 | 3 | 4 | - | 2 | 3 | 4 |
| Inputs | 379 | | | 40 | 91 | 154 | 164 | | | | | | | | | 54 | 45 | 45 | 45 | 46 |
| Outputs | 379 | | | | 8/ | 42 | 149 | 061 | 149 | 88 | 00 | 00 00 | 0 | 24 | 94 | 74 | 75 | δ | 0 | C 1 |
| | | FY 2002 | 002 | | | FY 2003 | 83 | \vdash | | FY 2004 | | | FΥ | FY 2005 | | | 70 | | Į | Totals |
| | - | 2 | 3 | 4 | - | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 2 | 3 | 4 | Con | Complete | | | |
| Inputs | 20 | 51 | 51 | 51 | 09 | 09 | 09 | 09 | | | | | | | | 2168 | *************************************** | | | 4645 |
| Outputs | 46 | 20 | 51 | 51 | 51 | 09 | 9 | 09 | | 9 09 | 9 09 | 9 09 | 90 | | | 2168 | | | | 4645 |
| METHOD OF IMPLEMENTATION: | MENTATIC | | Depot/Contractor | ontract | | DMINE | STRATIV | ADMINISTRATIVE LEADTIME | TIME: | e (| Months | hs | PROD | NOILO | LEAD | TIME: | 2 | Months | | |
| Contract Dates: | | | FY 1997 EV 1997 | | March 97 | _ | Lú | FY 1998 EV 1008 | Jan C | January 98 October 98 | | | FY 1999 | | January 99 October 99 | 66 7 | | | | |
| Delivery Date: | | | 661 1 | | io pino | | - | 000 | 3 | 20 1900 | | | | | 2000 | | | ı | | 1 |

| | | | | | N | IVIDUAL | . MODIF | INDIVIDUAL MODIFICATION | | | | | | | ۵ | Date | | February 1998 | 1998 | |
|----------------------------------|-----------|-------|---------|----------------------|---------|---------|---------|-------------------------|---------|------|---------|------|---------|------|---------|------|------|---------------|-------|---------|
| MODIFICATION TITLE (Cont): | | Blo | × 11- | Block 1 1-84-05-4026 | 1026 | | | | | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | EV 1006 | 90. | | | | | | | | | | | | | | | | | | |
| | and Prior | Prior | FY 1997 | 166 | FY 1998 | 398 | FY 1999 | 66 | FY 2000 | 000 | FY 2001 | 101 | FY 2002 | 20 | FY 2003 | 500 | 17 | | TOTAL | ږ |
| | Qty | \$ | Qty | \$ | Qty | 49 | Qty | €9 | Qty | 69 | Qţ | ₩ | Qty | s | Oty | s | Qţò | 49 | Ωţλ | 49 |
| RDT&E PROCUREMENT | | | | | | | | | | | | | | | | | | | | - |
| Kit Quantity | 2030 | | 304 | | 240 | | 216 | | 181 | | 203 | | 240 | | 240 | | 2168 | | 5822 | |
| Installation Kits | | 223.4 | | 31.2 | | 25.9 | | 21.1 | | 22.6 | - | 25.4 | | 35.8 | | 36.3 | | 339.1 | | 760.8 |
| Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Equipment | | 3.4 | | | | - | | | | | | | | | | | | | | 9. 4 |
| Equipment, Nonrecurring | | | | | | | | | | | | | | | | | • | | | |
| Engineering Change Orders | | | | _ | | | | | | | | | | | | | | | | |
| Data | | 40.2 | | 2.0 | | 2.3 | | 3.6 | | 4.3 | | 4.4 | | 4.6 | | 2.0 | | 46.7 | | 113.1 |
| Training Equipment | | | | | | | | | | | | | | | | | | | | |
| Support Equipment | | | | | | - | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
| Pre-Conversion | | | | | | | _ | 19.5 | | 22.2 | | 14.4 | | 22.1 | | 32.1 | | 290.0 | | 400.3 |
| FDT | | 0.1 | | 0.1 | | 0.5 | | 1.0 | | 1.0 | | 1.0 | | 1.2 | | 1.5 | | 14.0 | | 20.4 |
| TPF | | 2.6 | | 0.5 | | 0. | | 6 . | | 1.8 | | 1.9 | | 2.1 | | 2.3 | | 21.5 | | 35.0 |
| | | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | * | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits | 379 | 7.2 | 474 | 6.6 | | | | | | | | | | | | | | | 823 | 17.1 |
| FY 1997 Eqpt Kits | | | | | 304 | 8.7 | | | | | | | | | | | | | 304 | 8.7 |
| FY 1998 Eqpt Kits | | | | | | | 240 | 7.1 | | | | | | | | | | | 240 | 7.1 |
| FY 1999 Eqpt Kits | | | | | | | | | 216 | 6.8 | | | | | | | | | 216 | 6.8 |
| FY 2000 Eqpt kits | | | | | | | | | | | 181 | 5.8 | | | | | | | 181 | 5.8 |
| FY 2001 Eqpt kits | | | | | | | | | | | | | 203 | 6.8 | | | | | 203 | 6.8 |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | 240 | 7.9 | | | 240 | 7.9 |
| FY 2003 Eqpt kits | | | | | | | | | | | - | _ | | | | | 240 | 7.9 | 240 | 7.9 |
| TC Equip-Kits | | | | | | | | | | | | | | | | | 2168 | 75.9 | 2168 | 75.9 |
| Total Installment | 379 | 7.2 | 474 | 6.6 | 304 | 8.7 | 240 | 7.1 | 216 | 6.8 | 181 | 5.8 | 203 | 6.8 | 240 | 7.9 | 2408 | 83.8 | 4645 | 144.0 |
| Total Procurement Cost | | 276.9 | | 43.7 | | 38.4 | | 53.6 | | 58.7 | | 52.9 | | 72.6 | | 85.1 | | 795.1 | | 1477.0 |

| | | | | | | | | Date: | | | | |
|--|--|-----------------|---|--------------|---------------------------------|------------------------|---------|---------|-----------------------------|---------------|-------------|------------|
| | | Exhibit P-4 | Exhibit P-40, Budget Item Justification Sheet | em Justifice | ation Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 Item Nomenclature: | re: | | | | | |
| PROCUREMEN | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combal Vehicles | CMBT VEHS/1/Tre | icked Combat Vehicle | S9. | | | | FIST | FIST VEHICLE (MOD) (GZ2300) | 2300) | | |
| Program Elements for Code B Items: | 18; | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| 0 | 0203735A | | | 60 | | | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | 19 | 27 | 49 | 99 | 9 | 87 | 267 | 565 |
| Gross Cost | 372.8 | 0.0 | 0.0 | 0.0 | 15.6 | 20.7 | 43.5 | 47.4 | 50.1 | 62.3 | 202.1 | 814.5 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 372.8 | 0.0 | 0.0 | 0.0 | 15.6 | 20.7 | 43.5 | 47.4 | 50.1 | 62.3 | 202.1 | 814.5 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 372.8 | 0.0 | 0.0 | 0.0 | 15.6 | 20.7 | 43.5 | 47.4 | 50.1 | 62.3 | 202.1 | 814.5 |
| Flyaway U/C | | | | • | | | | | | | | |
| Wpn Sys Proc U/C | | | | | .8 | 8. | 6. | 8. | 8. | .7 | 8. | |

Support Team is attached to a mechanized infantry or armor company and is primarily responsible for developing and executing fire support plans that enable success on the battlefield in vehicles with the same signature, survivability, and mobility as other Bradley operations. The BFIST replaces the aging M981 Fire Support Vehicle for fire mission planning, support and execution for maneuver company commanders. The Fire DESCRIPTION: The Bradley Fire Support Vehicle (BFIST) integrates Mission Equipment Packages into a Bradley Fighting Vehicle to support heavy maneuver force maneuver units.

JUSTIFICATION: The current Fire Support Vehicle M981 was unable to maintain the operational tempo of Bradley /Abrams equipped maneuver forces during Operation Desert Storm (ODS). Additionally, the M981 displayed a number of operational deficiencies and shortcomings remedied by the BFIST design. The BFIST provides synchronization of combined arms operations.

| Exhibit P-5, Weapon WTCV Cost Analysis | | Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & THKD CMBT VEHS / 1 / Tracked Combat Vehicles | get Activity/s r OF WPNS acked Comb | Serial No: & TRKD CMBT at Vehicles | | P-1 Line Item FIST | P-1 Line Item Nomenclature: FIST VEHICLE (MOD) (GZ2300) | (672300) | > | Weapon System Type: | | Date: Februs | February 1998 |
|---|----|--|---|--|-----------|-----------------------|--|----------------------------------|-------|---------------------|--|-----------------|---------------|
| WTCV | aı | FY 96 | FY 96 | | | FY 97 | | | FY 98 | | | FY 99 | |
| ents | g | TotalCost | Qty | UnitCost | TotalCost | Qfy | UnitCost | TotalCost | Oty | UnitCost | . | Q V | UnitCost |
| | | 000\$ | Each | 000\$ | 000\$ | Each | \$000 | 000\$ | Each | \$000 | 000\$ | Each | \$000 |
| Hardware Cost 1. Vehicle Upgrade 2. Pre-Mod Depot Maintenance | | | | | | | | 10994 | 19 | 629 | 10209 | 27 | 378 221 |
| SUBTOTAL | | | | | | | | 10994 | | | 16178 | | |
| Non Recurring Production 3. Engineering Contractor 4. Engineering Government 5. Program Management Administration 6. Reimbursable Matrix Support 7. Fielding 8. Refurbish Test Vehicles | | | | | | | | 2610 418 239 896 438 | | | 1790 375 215 804 320 1038 | | |
| SUBTOTAL | | | | | | | | 4601 | | | 4542 | | |
| TOTAL | | | | | | | | 15595 | | | 20720 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| 1 | U transmission Drawing of C | lieton, on | od Dlanning | | | | | Date: | | |
|--|-----------------------------|---------------------|--|------------------|-------------------------------------|----------------------|---------------------------------------|---------|-------------------|-------------------|
| EXHIBIT | -sa, budget riocurement r | iistory ai | id riaining | | | | | Febr | February 1998 | T |
| Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRED CMBT VEHS / 1 / Tracked Combat | | Weapon System Type: | n lype: | | P-1 Line Item Nomenclature: FIST | omenclature: FIST | ature: FIST VEHICLE (MOD) (GZ2300) | GZ2300) | | |
| Vanidias WBS Cost Elements: | Confractor and Location | Contract | Location of PCO | Award Date | Date of First | αту | Unit Cost | | Date RFI Revsn | RFP Issue Date |
| Fiscal Years | | and Type | | | Delivery | Each | \$000 | _ | | 1 |
| o Upgrade | UDLP, York, PA | SS/FFP SS/FFP | USATACOM, Warren, MI USATACOM, Warren, MI | Dec-97 Nov-98 | May-99 Jan-00 | 27 | 378 | | | |
| REMARKS: | | | | | | | | 1 | - | |

Σ L C −

| FY 98 / 99 BUDGET PRODUCTION SCHEDULE | DO. | TION SC | HEDU | " | | | P-1 | P-1 Item Nomenclature: | menc | lature | FIST | : FIST VEHICLE (MOD) (GZ2300) | E (MC | D) (G | Z2300 | | | | | | Date: | .; : | | | Febr | February 1998 | 886 | | |
|---------------------------------------|-----|---------|----------|------------------|--------|----------------|--------|------------------------|----------|----------|----------------|----------------------------------|--------------|------------------|-------|--------------|-----|-------|--------------|-----------|--------------|----------------|----------------|--------------|--------------------|-----------------|-----------------|--|-----|
| | t | | | PROC | ACCEP. | BAL | | | | - | Fiscal Year 00 | ea | 8 | | | | H | | | | ۲ | sca | Fiscal Year 01 | r 01 | | | | | ٦. |
| | Σ | | တ | ΔT | PRIOR | DUE | | | _ | | | | Cale | Calendar Year 00 | . Хөв | ır 00 | | | | | | ٥ | Calendar | dar | Year | 10 | | | 4 |
| COST ELEMENTS | πα | FY | m & > | Each | 100 t | AS OF 1 OCT | 0 U F | z 0 > | _ W Z | ¬ < Z | ≥ < Œ | < 0 a | ≥ < ≻ | ¬ ⊃ Z | ٦ - ٦ | ∢ ⊃ ৩ | αшг | 0 O F | z 0 > | O III O | ¬ < Z | ∑ < Œ | < G & | ∑ < ≻ | $\neg \supset Z$ | د 0 د | ∀ ⊃ ७ | ωшг | ⊢шс |
| . Vehicle Upgrade | | | | | | | | | | \dashv | \dashv | | | | | | | | | - | - | _ | 4 | 4 | | | | | |
| | - | FY 98 | ٧ | 19 | 7 | 12 | 4 | 4 | 4 | _ | 4 | | | | | | | | - | _ | \dashv | _ | _ | | | | | | |
| | 1 | FY 99 | Α | 27 | 0 | 27 | | - | - | 2 4 | 4 | • | 4 | 4 | 2 | | | | \dashv | | _ | \dashv | | 4 | | | | ٦ | |
| | | | | | | | | H | | Н | Ц | | | | | | | | | | | Н | Ц | | | | | ٦ | |
| | | | | | | | | Н | Н | Н | Ц | Ц | | | | | | | | | \dashv | | | | | | | | |
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| | | | | | | | | | - | H | Н | Ц | | | | | | | Н | | Н | Н | | Ц | | | | | |
| | | | | | | | | | | \vdash | | | | | | | | П | Н | - | Н | _ | | Ц | | | | | |
| | | | | | | | | | - | - | L | | | | | | П | П | | | H | | | | L | | | | |
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| | | | | | | | | \vdash | - | - | L | L | L | | | | | | | F | \vdash | \vdash | _ | L | L | | | Г | |
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| | | | | | | | | \vdash | \vdash | \vdash | L | L | | | | | Г | | | H | H | H | L | | | | | Г | |
| | | | | | | | | | - | - | L | L | L | | | | Г | Г | H | - | H | _ | L | _ | L | | | | |
| | | | | | | | | | | H | | | | | | | | | | | | \vdash | L | | Ш | | | | |
| | | | | | | | | Н | H | Н | | Ц | | | | | | П | | | | - | | \dashv | | | | | |
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| | | | | | | | | + | \dashv | \dashv | \dashv | 4 | _ | | | | T | T | + | ┪ | + | + | 4 | \downarrow | _ | | | | |
| Total | | | | | | | 4 | - | 4 | 2 4 | 4 | 4 | 4 | 4 | S | | 7 | 1 | 1 | + | ┨ | 4 | 4 | 4 | 4 | ┙ | | 1 | |
| | | | | | | | 00- | z o > | 0 11 0 | ¬ 4 Z | ∑ < Œ | < C C | ≥ < ≻ | γDΖ | רחי | ∢⊃ฃ | ωшд | 0 O F | z 0 > | O III O | > < Z | 7 1 8 8 A R | < 0 E | ∑ ∢ ≻ | 7 D Z | - D - | ۷⊃ ق | o m r | |
| ly. | ۲ | ద | RODUCTIC | PRODUCTION RATES | | | | æ | | | | Ц | PD | ADMIN LEAD TIME | ADT | IME | П | - | MFR | - | TOTAL | LAL. | | HEMARKS | RKS | ' | ľ | | |
| NOTE OF LEASE | | 3 | ٠ | 4 | MAX | HEACHED D+ | Number | | INITIAL | | F | 1 | Prior 1 Oct. | it Ct | ¥ | After 1 Oct. | 5 | Affe | Affer 1 Oct. | + | Affer 1 Oct. | r 1 Oct. | . 3 T | Produ | ction R ehicles | ates T being | o Be D new p | Production Rates To Be Determined: Due to vehicles being new production. | ed: |
| INDIE Vork DA | Ť | · A | | | | | | | REORDER | EB | ╀ | Ļ | | | | | T | | | t | ' | | 5 T | JLP is | downs | izing/r | eorgar | UDLP is downsizing/reorganizing, and | put |
| מביי ומציי | T | | | | | | | É | INITIAL | | H | L | | | | | | | | H | | | 8 | signin | gamu | olfi proc | fuct ap | designing a multi product approach to | 9 |
| | | | | | | | | Œ | REORDER | E. | Н | Ц | | | | | П | | | H | | | £ 8 | tiled. | Some L | seful ? | Ain/Ma | production, writer mese immanives are settled, some useful Min/Max rates may | mav |
| | 1 | | | | | | | <u> </u> | INITIAL | 5 | + | 4 | | | | Ì | T | ۱ | 1 | \dagger | l | | ž T | be possible. | ble. | | | | |
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| | | Exhibit P-4 | 0, Budget It | Exhibit P-40, Budget Item Justification Sheet | ation Sheet | | | Date: | | February 1998 | | |
|--|--|---------------------|---------------------|---|---------------------------------|------------------------|---------|---------|----------------------------|---------------|-------------|------------|
| Appropriation / Budget Activity/Serial No: | rtat No: | | | | | P-1 Item Nomenclature: | re: | | | | | |
| PROCUREMEN | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | CMBT VEHS / 1 / Tra | cked Combat Vehicle | 88 | | | | BFVS | BFVS SERIES (MOD) (GZ2400) | (00) | | |
| Program Elements for Code B Items: | TS: | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | | | | ٧ | | | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 503.1 | 90.2 | 88.6 | 113.6 | 60.0 | 59.0 | 1.7 | 7.4 | 4.0 | 7.6 | 0.0 | 935.2 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 503.1 | 90.2 | 88.6 | 113.6 | 60.0 | 29.0 | 1.7 | 7.4 | 4.0 | 7.6 | 0.0 | 935.2 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 503.1 | 90.2 | 88.6 | 113.6 | 60.0 | 59.0 | 1.7 | 7.4 | 4.0 | 7.6 | 0.0 | 935.2 |
| Fiyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| | | | | | | | | | | | | |

A1 to A2 conversion effort increases the vehicle survivability and brings the vehicle up to the current A2 configuration, with the addition of the High Survivability Kit and the DESCRIPTION: The funds appropriated, budgeted, and programmed in this budget line will provide for the procurement and application of modification kits for the Bradley System, and Armor Tiles. One safety mod, the A2 Card Retrofit, will prevent inadvertent TOW missile launch. The A2 ODS Applique(+) modification will integrate Bradley Finder, Position Navigation System, Equipment Restow Improvement, Combat Identification System, Drivers Vision Enhancer and Missile Countermeasure Device. The Fighting Vehicle. The Operation Desert Storm improvements are 6 ECPs which will correct deficiencies identified in Operation Desert Storm and include. Laser Range 600HP power pack. Operational improvements are the Transmission Electronic Controller, the Armament Control Unit Pillow Block, the Vehicle Intercommunications Fighting Vehicles with the Army's Applique computer system to improve situational awareness. Additionally, there is the Presidentially directed HALON Replacement Program. Most of these modifications will be applied concurrently in "blocks" to reduce application cost and inconvenience to the unit.

JUSTIFICATION: The programs in these P-Forms were initiated to meet requirements identified to correct deficiencies identified in Operation Desert Storm and to improve the lethality, survivability, mobility and situational awareness of the Bradley Fighting Vehicle. Reduced Bradley Fighting Vehicle capability, survivability, and mobility will occur if these modifications are delayed or reduced.

| | | | | | | | Doto | | | | |
|---|--|---|--------------|--------------------------------|-----------------------|---------|---------|----------------------------|---------------|-----|-------|
| | Exhibit P-4 | Exhibit P-40M Budget Item Justification Sheet | em Justifica | ition Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No. PROCUREMENT OF V | iget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | racked Combat Vehicles | | | P-1 Item Nomenclature | | BFVS S | BFVS SERIES (MOD) (GZ2400) | 400) | | |
| Program Elements for Code B Items | | | Code | Other Related Program Elements | ım Elements | | | | | | |
| | | | | | | | | | | | |
| Description | | Fiscal Years | | | | | | | | | |
| OSIP NO. CIE | Classification | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | 10 | Total |
| A1-A2 Conversion | | | | | | | | | | | |
| 1-84-05-4038 Op | Oper. Capability | 347.3 | 16.4 | 16.8 | 13.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 394.1 |
| A2 ODS Mods | | | | | | | | | | | |
| 1-92-05-4404 Op | Oper. Capability | 67.2 | 49.6 | 28.9 | 31.9 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 179.2 |
| Transmission Electronic Controller (TEC) | Controller (TEC) | | | | | | | | | | |
| 1-90-05-4282 Op | Oper. Capability | 5.8 | 4.1 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.5 |
| ACU Pillow Block Mod | | | | | | | | | | | |
| 1-91-05-4314 Op | Oper. Capability | 5.8 | 0.0 | 9.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.2 |
| Vehicle Intercom System | _ | | | | | | | | | | |
| 1-90-05-4284 Op | Oper. Capability | 8.4 | 3.0 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.3 |
| DECA | | | | | | | | | | | |
| 1-93-05-4441 Op | Oper. Capability | 11.5 | 5.7 | 1.4 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.1 |
| HALON Replacement | | | | | | | | | | | |
| 1-92-05-4422 Le | Legisl. Compliance | 3.7 | 9.0 | 4.7 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 9.5 |
| Armor Tiles | | | | | | | | | | | |
| 1-84-05-4038 Op | Oper. Capability | 40.6 | 32.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 73.3 |
| A2 Card Retrofit | | | | | | | | | | | |
| 1-96-05-4517 sa | safety | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| Suite of Survivability Enhancement Systems (No P3a Set) | hancement Systems (| (No P3a Set) | | | | | | | | | |
| 1-96-05-4514 Op | Oper. Capability | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 | 4.0 | 7.6 | 0.0 | 19.0 |
| A2 ODS Applique | | | | | | | | | | | |
| 1-98-05-4539 Op | Operational Capability | 0.0 | 0.0 | 0.0 | 10.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.9 |
| Totale | | 490.3 | 113.6 | 60.09 | 59.0 | 1.7 | 7.4 | 4.0 | 7.6 | 0.0 | 743.6 |
| 1 otals | | | | | | | | | | | |

| | | | | | | <u>N</u> | VIDUA | MOD | INDIVIDUAL MODIFICATION | NO | | | | | | | Date | | February 1998 | v 1998 | T |
|--|-------------------------|------------------|---|----------------|-----------------|-----------------|---|-------------------------------|---------------------------------------|---------------------|-----------|----------|-------------|--------------------|--------------------|------------------------|--------------|----------|-------------------|--------------|--------|
| MODIFICATION TITLE | A1-A2 | 2 Con | A1-A2 Conversion 1-84-05-4038 | n 1-84 | 1-05-4 | 038 | | | | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: | SAFFECT | TED: | M2 | M2A1 (IFV) | / M3A | / M3A1 (CFV) | | | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: The BFVS conversion effort converts the A1 | IFICATION ISION effo | ort co | nverts | the A | | igurat | ion to | an Až | configuration to an A2 configuration. | gurati | ů. | | | | | | | | | | |
| The conversion effort includes: | fort incli | udes: | doid ich | | , 0000 | o loido | 0 | ilidovi | the three | - 40 | 200 | Citocile | ر د د | tornot to | 2 | 2 | 0000 | , ovit | 30 | į | |
| compartment spall liners for increased protection against threat from frontal attack. The HS kit also contains other associated changes such as | IIII) (III) | for inc | rich w | d prot | ection | agair | e surv | eat fro | ing time | nugiri. Ital atl | e aptack. | The HS | S Kit al | so col | ntains | other | associ | ated ch | e or cr nanges | ew s such | as l |
| restowage, swim curtain, IFV firing ports, and M240 gun upright. 2. The 600HP power pack, which includes the 600 HP engine and the reliability improved 500-3 Transmission which eliminates the adverse | curtain, wer pack | IFV fi k, whi | iring po ch incl | orts, a | nd M2 the 60 | 140 gt 10 HP | nd M240 gun upright. he 600 HP engine ar | ight. e and | the re | liabilit | y imp | roved (| 500-3 | Trans | missic | on whi | ch elir | ninates | the ad | iverse | |
| impact of increased vehicle weight on vehicle performance and reliability, resulting from High Survivability changes. | ed vehic | le we | ight or | ı vehic | ed elc | rform | ance 8 | and re | iability | , resu | lting f | rom H | igh Su | ırvivat | oility of | hange | ý. | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | TUS / MAJ | OR DE | VELOP | MENT | | MILESTONES | | | | PLANNED | NED | | | | ACC | OMPL | ACCOMPLISHED | | | | |
| Preliminary Design Review: | view: | | | | | | | | | | ¥ | | | | | | | | | | |
| Critical Design Review: | | | | | | | | | | | Y Y | | | | | | | | | | |
| Contractor Test and Evaluation: | aluation: | | | | | | | | | | ¥ | | | | | | | | | | |
| Development Test and Evaluation: | Evaluation | ë | | | | | | | | | ¥ | | | | | | | | | | |
| Initial Operational Test and Evaluation: | and Evalu | ration: | | | | | | | | | NA S | | | | | 0 | | | | | |
| IPR Production Decision TDP Available: | Ę | | | | | | | | | | | | | | | 3089 | | | | | |
| Installation Schadule. | | | | | | | | | | | | | | | | | | | | | |
| | Pr Yr | | FY 1997 | 97 | | | 7 | FY 1998 | | | ₹ | FY 1999 | | | F | FY 2000 | | | F | FY 2001 | |
| | Totals | - | 2 | 3 | 4 | - | 2 | | | | Ш | 3 | | | | 2 | 3 4 | - | 2 | 3 | 4 |
| Inputs | 938 | 42 | 24 5 | 24 5 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 45 | | | | | | | | | |
| Sinding | 200 | 7 | 15 | 7 | 7 | 7 | 7 | 7 | | | | | | | | _ | | | | | |
| 9 (| | FY 2002 | 102 | | | FY 2003 | 003 | | | FΥ | FY 2004 | | | FY | FY 2005 | | | To | | | Totals |
| | - | 2 | 3 | 4 | = | 2 | 3 | 4 | - | 2 | | 3 4 | - | ,,, | 2 | 3 4 | 4 Q | Complete | | | |
| Inputs Outputs | | | | | | | | | | | | | | | | | | | | | 1358 |
| METHOD OF IMBI EMENIATION: | ENITATIO | 1 | - Jours | - iorova | | DAMIN | STDA1 | 17/1 | ADMINISTRATIVE I EADTINE: | i | ۵ | Month | | 000 | Oi Follow | BOOD ICTION I EADTIME: | TIME. | Ş | Months | | 200 |
| Contract Dates: | | | Pepal Collyersion FY 1997 Jan FY 1997 Jan | الاقالات ال | 97 | | 2 | FY 1998 FY 1998 FY 1998 | 2 8 8 8 8 | ıi | Þ | | n. | FY 1999 FY 1999 | 21 200 69 89 | N LEA | | <u>v</u> | | | |
| | | | | | | | | | | | | | | | | | | | l | | 1 |

| | | | | | 2 | INIDUAL | MODIF | INDIVIDUAL MODIFICATION | | | | | | | ۵ | Date | | Februs | February 1998 | |
|----------------------------------|------|-----------|---------|-------------------------------|---------|---------|---------|-------------------------|---------|-----|---------|-------|---------|-----|---------|------|-------|--------|---------------|------------|
| MODIFICATION TITLE (Cont): | | Ā | -A2 Co | A1-A2 Conversion 1-84-05-4038 | ın 1-84 | -05-40; | 38 | | | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | | EV 4008 | | | | | | | | | | | | | | | | | | |
| | and | and Prior | FY 1997 | 997 | FY 1998 | 968 | FY 1999 | 66 | FY 2000 | 000 | FY 2001 | 201 | FY 2002 | 200 | FY 2003 | 503 | TC | | TOTAL | AL. |
| | ğ | 49 | οţ | 49 | Q Ş | €9 | Oty | €9 | Oty | s | Qty | \$ | Qty | \$ | Oty | \$ | Qty | \$ | Qty | € |
| RDT&E | | 115.6 | | | | | | | | | | | | | | | | | | 115.6 |
| PROCUREMENT | | | | | | | | | | | | | | | | | | | | |
| Kit Quantity | | | | | | | | | - | | | | | | | | | | | |
| Installation Kits | | | | | | | | | | | | | | | | | | | | |
| Installation Kits Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| 600 HP Engine | 1317 | 45.6 | 4 | 1.9 | | | | | | _ | | | | | | | | | 1358 | |
| 500-3 Transmission | 1358 | 39.2 | | | | | | | | | | | | | | | | | 1358 | |
| High Survivability kits | 1358 | 187.9 | | 2.5 | | | | | | | | | | | | | | | 1358 | 190.4 |
| Engineering Change Orders | | 0.9 | | | | | | | | | | | | | | | | | | 0.0 |
| Training Equipment | | | | | | | | | | | | | | | | | | | | |
| Support Equipment | | | | | | | | _ | | | | | | | | | | | | |
| Other | | 1.6 | | 0.8 | | | | | | | | | | | | | | | | 2.5 |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
| Pre-mod Depot Maintenance | | | | | | | | 6.2 | | | | | | | | | ***** | | | 6.2 |
| | | | | | | | | | | | | 1 170 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits | 977 | 72.1 | 136 | 11.2 | 168 | 16.8 | 36 | 3.4 | | | | | | | | | | | 1317 | ¥ |
| FY 1997 Eqpt Kits | | | | | | | 4 | 9. ₀ | | | | | | | | | | | | 9.6 6.0 |
| FY 1998 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 1999 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 2000 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FT 2001 Edpt -: Rits | | | | | | | - | | | | | | | | | | | | | |
| FY 2002 Edpt kits | | | | | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | | | | | | | | | | | | | | | |
| Total Installment | 977 | 72.1 | 136 | 11.2 | 168 | 16.8 | 11 | 7.3 | | 1 | 1 | | 1 | | | | | | 1358 | |
| Total Procurement Cost | | 347.3 | | 16.4 | | 16.8 | | 13.6 | | | | | | | | | | | | 394.1 |

| | | | | | <u>N</u> | VIDUA | INDIVIDUAL MODIFICATION | FICATION | NO | | | | | | | Date | | February 1998 | 1998 | Γ |
|--|-----------------------------|----------------------|-------------------|-----------------|----------|----------|---|--------------------|------------------|-------------------|----------------------------|----------|--|-------------------------|---------|-----------|-----------|---------------|---------|--------|
| MODIFICATION TITLE: | A2 ODS Mods 1-92-05- | Mods | 1-92-0 | 5-4404 | | | | | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: M2A2/M3A2 | FFECTED | : M2A2/I | M3A2 | | | | | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | ATION: | | | | | | | | | | | | | | | | | | | |
| Six vehicle improvements (ECP's) which will correct deficiencies identified in Operation Desert Storm. These increase vehicle lethality and survivability and situational awareness. Additionally included in this effort are Amored Harches to further improve vehicle survivability. | s (ECP's) w | which wil | correct | deficier | ncies io | entified | in Oper | ration D | esert St | orm. Th | ese inc. | rease v | ehicle k | thality | and su | vivabilit | y and sit | uational | awarene | es. |
| a. Language Finder: will give the BFV and the first on target capability and reduce the time required to acquire and kill a target. b. Position Navigation System: Global Positioning System (GPS) integration pardware and a self calibration cliqual compass. This will enable the Bradley commander to | /ill give the | BFVS a | first bur | st on ta | rget ca | pability | and red | uce the | time rec | quired to | o acquir | e and k | dill a tar | jet. is will e | t elden | he Bradi | lev com | nandart | | |
| determine his exact location at all times and determine the heading and distance to any location. | tion at all ti | imes an | determ | ine the | headin | g and d | stance | to any le | ocation. | | 0 | | | | | | | | | |
| c. Equipment Restow Improvement: Improves the method of stowing internal and external equipment. d. Combat Identification System (CID): Provides integration hardware for the passive CID system that will provide visual and thermal signatures detectable between ground to | provement: System (CI | : Improv D): Prov | es the rides inte | ethod c | f stowi | ng inter | nal and he pass | externa ive CID | equipn system | nent. that wil | l provid | e visual | l and th | ərmal si | ignatur | es detec | table be | tween gr | ound to | |
| ground vehicles and from air to ground. e. Driver's Thermal Viewer: Increases the driver's abili | nair to grou er: Increas | und. es the d | iver's al | oility to | see thr | ugh ba | ttlefield | obscure | ants suc | h as du | st, fog ε | and smo | ty to see through battlefield obscurants such as dust, fog and smoke during night and day. | ng nigh | t and d | ay. | | | | |
| f. Missile Countermeasure Device: Provides additional | e Device: F | Provides | addition | | ection a | gainst | protection against a variety of anti tank missiles. | of anti | tank mis | ssiles. | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: | /MAJOR | DEVELO | PMEN | MILES | TONE | iš | | | ACCON | ACCOMPLISHED | | | | 占 | PLANNED | | | | | |
| Preliminary Design Review: | | | | | | | | | • | 4093 | | | | | 4093 | | | | | |
| Critical Design Review: | | | | | | | | | | 2094 | | | | | 2094 | | | | | |
| Contractor Test and Evaluation: | ation: | | | | | | | | - | 3094 | | | | | 3094 | | | | | |
| Development Test and Evaluation: | aluation: | | | | | | | | | 4094 | | | | | 1095 | | | | | |
| Initial Operational Test and Evaluation: | f Evaluation | ë | | | | | | | | 1095 | | | | | 1095 | | | | | |
| IPR Production Decision | | | | | | | | | | 2095 | | | | | 2095 | | | | | |
| Installation Schedule: | : | | | | | | | | | | | | | | | | | | | |
| Pr Yr | ۲٠ | Ā | FY 1997 | | | FΥ | FY 1998 | | | FY 1999 | 666 | | | FY | FY 2000 | | | FY 2001 | 5 | |
| | | | | 4 | - | | | | - | 2 | 3 | 4 | | 2 | 3 | 4 | - | 2 | 3 | 4 |
| Inputs | 26 93 | 8 8 | 124 | 124 | 95 | . 15 | 104 | 147 | 72 | 27 | 88 | 126 | 105 | | | | 17 | <u>†</u> † | 9 9 | 16 |
| Carpais | | | | 16.4 | G | | | | 12 | 5 | 88 | 3 | | | | | | = | 2 | 2 |
| | FΥ | FY 2002 | Γ | | FΥ | FY 2003 | | | FY 2004 | 9004 | | | FΥ | FY 2005 | | | 2 | | ٢ | Totals |
| | 1 2 | 3 | 4 | F | 2 | 3 | 4 | - | 2 | 3 | 4 | - | 2 | 3 | 4 | | Complete | | | |
| Inputs | 15 14 | 4 4 | 4 4 | | | | | | | | | | | | | | | | | 1493 |
| METHOD OF IMPI EMENTATION: | TATION. | | 1 | Hold | ADAMA | -VOTO | ADMINISTRATIVE EADTINES | ADTIMA |] ii | ď | Months | | 10000 | BBODI ICTION I EADTINE: | 1 500 | TIME. | Ş | Months | | 2 |
| METHOD OF IMPLEMEN Contract Dates: | 5 | FY 1997 | node | rieid Jan 97 | | <u>ל</u> | FY 1998 | رة 1975 ه | E: Jan 98 | ٥ | 2 2 2 2 2 2 | _ | FY 1999 | <u> </u> | Jan 99 | i ivit | | Months | | |
| Delivery Date: | | FY 1997 | | Jan 98 | | | FY 1998 | | Jan 99 | | | | FY 1999 | ඉ | Jan 00 | _ | | | | |

| | | | | | N | INDIVIDUAL MODIFICATION | MODIF | ICATION | _ | | | | | | ٥ | Date | | February 1998 | / 1998 | |
|--|-----|-----------|---------|--|-----------------|---|---------|-----------|-----------|-----------|------------|--------------|---------|-------------|---------|------|----|---------------|--------|-------|
| MODIFICATION TITLE (Cont): | | Ą | SOO | A2 ODS Mods 1 | -92-05-4404 | -4404 | | | | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | | 1006 | _ | | | | | | | | | | | | | | | | | |
| | and | and Prior | 된 | FY 1997 | FY 1998 | 866 | FY 1999 | 999 | FY 2000 | 000 | FY 2001 | 100 | FY 2002 | 200 | FY 2003 | 003 | TC | | TOTAL | AL |
| | Qty | 69 | Qty | €9 | Δţ | s | Q ty | 49 | Oţ. | €9 | Οţλ | €9 | οţλ | છ | Qty | 8 | Qţ | €9 | Qţy | € |
| RDT&E PROCUREMENT Kit Quantity | | | | | | | | | | | | | | | | | | | | |
| Installation Kits Installation Kits, Nonrecurring | 069 | 63.3 | 415 | 45.3 | 215 | 28.9 | 173 | 25.5 | | | | | | | | | | | 1493 | 163.1 |
| Equipment Equipment, Nonrecuring | | 1.9 | | | | | | | - | | | | | | | | | | | 1.9 |
| Engineering Change Orders Data | | | | | | | | | | | | - | | | | | | | | |
| Training Equipment | | Č | | | | | | | | | | | | | | | | | | 0 |
| Other | | 0.0 | | | | | | | | | | | | | | | | | | į |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 4.47 | - | | | | | | | | | | | |
| installation of Hardware | | | | | | | | | | | | | | | | | | | | 1 |
| FY 1996 & Prior Eqpt Kits | 193 | 1.8 | 356 | 4.2 | | | | | | - | - | | | | | | | | 549 | 0.9 |
| FY 1997 Eqpt Kits FY 1998 Eqpt Kits | | | | | | | 122 | 6.4 | | | | | | | | | | | 122 | 6.4 |
| FY 1999 Eqpt Kits | | | | | | | | | 116 | 1.6 | | | | | | | | | 116 | 1.6 |
| FY 2000 Eqpt kits | | | | | | | _ | - 3 | - 101 | — Gold | 6 | } | _ 5 | - oilago | | | | | | |
| FY 2001 Eqpt Kits | | | NO E | INOTE: Application quantities and costs fetiled Kits applied by field fetilotit of ity. Costs for ODS application and A. A. A. A. A. A. A. A. A. A. A. A. A. | on quant | on quantities and costs reflect fits applied by liefd fetrolit unity. Costs for ODS | A1-A2 | nect Kits | applied i | locted or | ellolle or | ily. Cost | | applic — | | | | | | |
| EV 2002 Eqpt kits | | | Sill no | | - Inaliula - | - Alle | , | — | <u> </u> | | | | | | | | | | | 0 |
| TO Equip-Kits | | | | | | | | | | | | | | | | | | | | |
| Total Installment | 193 | | 356 | | | | 122 | 6.4 | 116 | 1.6 | | | | | | | | | 787 | 14.0 |
| Total Procurement Cost | | 67.2 | | 49.6 | | 28.9 | | 31.9 | | 1.6 | | | | | | | | | | 179.2 |
| | | | | | | | | | | | | | | | | | | | | |

| | | | | INDIN | DUAL A | INDIVIDUAL MODIFICATION | ATION | | | | | | | Date | | Febr | February 1998 | |
|---|---|-----------|-------------|---------|---------------|--------------------------|--------|---------|----------------|--------|---------|--------------------|----------------------|-------|---|----------|---------------|--------|
| MODIFICATION TITLE: Transm | Transmission Electronic Controller (TEC) 1-90-05-4282 | ctronic | Contr | oller (| LEC) . | 0-06- | 5-428 | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: MZAZ/M3A2 | D: MZAZ/M3 | A2 | | | | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | | | | | | | | | | | | | | | | | | |
| The Transmission Electronic Controller (TEC) replaces the hydromechanical transmission control with an electromechanical control. The TEC directly improves transmission maintainability and reliability. The control features of TEC will provide improved acceleration fuel utilization and | c Controll | er (TE | C) rep | laces t | he hy | drome | chanic | al trar | smiss of TE | ion co | ntrol v | vith an | electr | omech | EC) replaces the hydromechanical transmission control with an electromechanical control. The TEC and reliability. The control features of TEC will provide improved acceleration fuel utilization and | control | The | TEC |
| hot and cold performance, and better low speed maneuverability. | and better | low st | beed n | anen | /erabi | iţ. | 5 | | 5 | | | | | | , | | 7 | 2 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | 3 DEVELOP | | MILESTONES: | ONES: | | | | | | | | | | | | | | |
| IPR Production Decision: 2Q94 TDP Available: 2Q94 | 794 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | | | |
| Pr∀r | FY 1997 | 76 | | | FY 1998 | 8 | - | | FY 1999 | 6 | - | | FY 2000 | | F | 1 | FY 2001 | |
| Totals | | 8 | 4 | + | 2 | 3 | 4 | - | 2 | 8 | 4 | - | 2 | 3 | 4 | - | 2 | 9 |
| Inputs 26 6 Outputs 26 6 | 61 61 61 61 | 61 | 6 61 | 61 | 6 61 | 9 9 | 8 8 | 9 6 | 6 6 | 6 6 | 6 6 | 6 6 | | | <u> </u> | | | |
| | | | | | | - | | | | | | | | - | | | | |
| | 88 | † | , | FY 2003 | | + | ļ | FY 2004 | - 1 | + | - | FY 2005 | - 1 | T | | 0 | | Totals |
| Inputs | 5 | 4 | + | N | 2 | 4 | 1 | N | 2 | 4 | + | N | 20 | 4 | Complete | <u>e</u> | | 820 |
| Outputs | | | | | | | | | | | | | | _ | | | | 820 |
| METHOD OF IMPLEMENTATION: | Contr/depot/field | oot/field | | MINIS | FRATIV | ADMINISTRATIVE LEADTIME: | TIME | | 9 W | Months | P. | oppoc | PRODUCTION LEADTIME: | ADTIM | E: 8 | Months | SI | |
| Contract Dates: | FY 1997 FV 1997 | ۵ ۹ | Dec 97 | | í, í | FY 1998 FY 1998 | ۵ ۹ | Dec 98 | | | £ û | FY 1999 EV 1990 | | | | | | |
| College y Date: | 1661 1 1 | ١ | as find | | - | 000 | 2 | 66 6 | ı | | - | 222 | I | | | | ı | |

| | | | | | | | | | 000 | - | | | | | | | | | | |
|--|-----|----------------------|--------|-----------------|---|----------|----------|----------|-------|----------|----|---------|----|---------|----|---------|-----|--------------|-------|------|
| MODIFICATION TITLE (Cont): | | Tre | ansmis | Transmission El | lectronic Controller (TEC) 1-90-05-4282 | ic Con | roller | (TEC) 1 | 0-06- | 5-4282 | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | | | | | | | | | | | | | | | | | | | | |
| | F F | FY 1996 and Prior | Ę | FY 1997 | ΕV | FY 1998 | Ę | FY 1999 | F | FY 2000 | FY | FY 2001 | FY | FY 2002 | FY | FY 2003 | 7 | 0 | TOTAL | A. |
| | Ωtỳ | 69 | Qty | \$ | aty | \$ | Öţ | € | ģ | € | ð | €9 | Öţ | 69 | άţ | 49 | Qty | s | Qty | 8 |
| RDT&E PROCUREMENT Kit Quantity Installation Kits | 333 | ν. α | 256 | 4.1 | 231 | 3.6 | | | | | • | | | | | | | | 820 | 13.5 |
| Installation Kits, Nonrecurring Equipment | | | | | | | | | | | | | | | | | | | | |
| Equipment, Nonrecurring Engineering Change Orders | | | | | | | | | | | | | | | | | | | | |
| Data | | | | | | | | | | | | | | | | | | | | |
| Support Equipment | | | | | | | | | _ | <u> </u> | | | | | | | | | | |
| Other Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
| | | | NOTE | Applicat | NOTE: Application is budgeted as part of the A2 ODS program | dgeted a | s part o | f the A2 | | ogram | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits | | | | | | _ | | | | | | | | | | | | | | |
| FY 1997 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 1999 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 2000 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2001 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2002 Eqpt kits EV 2003 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| TO Equip-Kits | | | | | | | | | | | | | | | | | | | | ļ |
| Total Installment | | | | | | | | | | | | | | | | | | | | |
| | | 3 | | | Ĺ | 00 | | | | | | | | | | | | | | |

| | | | | | INDIN | DUAL N | INDIVIDUAL MODIFICATION | VION | | | | | | | Date | | February 1998 | 88 | Γ |
|---|----------------------|----------|------------------|-----------------|---------|---------|--------------------------|----------|---------|-----------------|--------|---------------|--------------------|----------------------|--|----------|--------------------|-------|--------|
| MODIFICATION TITLE: | ACU Pillow Block Mod | w Bloc | | 1-91-05-4314 | 5-4314 | | | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: TOW 2 SUBSY | FECTED: | TOW 2 | UBSYS | STEM | | | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | ATION: | | | | | | | | | | | | | | | | | | |
| This block modification combines 5 class 1 ECPs into a consolidated block ACU package. The ACU is part of the TOW missile launcher. These modifications will seal against moisture and eliminate pillow block associated damage to the ACU which can result in critical failures of | on combi | ines 5 c | lass 1 moisti | ECPs Ire and | into a | conso | idated llow blo | block A | ACU pa | ackage d dam | e. The | ACU of the | is par ACU w | t of the | 1 ECPs into a consolidated block ACU package. The ACU is part of the TOW missile launcher. sture and eliminate pillow block associated damage to the ACU which can result in critical failur | ssile la | uncher al failu | es of | |
| the TOW weapon system package. | stem pac | kage. | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 7 | | | | 4 | 101 | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | MAJOH | JEVELO | | MILES I ONES: | ONES: | | | | Tal. | Flanned | | | | ACCO | Accomplished | | | | |
| Preliminary Design Review: | | | | | | | | | Z | ¥ : | | | | ¥ : | | | | | |
| Critical Design Review: | | | | | | | | | Z | ¥ : | | | | Y : | | | | | |
| Contractor Test and Evaluation: | tion: | | | | | | | | 2 . | ¥ : | | | | Z : | | | | | |
| Development Test and Evaluation: | luation: | | | | | | | | 2 7 | ¥ : | | | | Ž : | | | | | |
| Initial Operational Test and Evaluation: | Evaluation | <u>.</u> | | | | | | | ۲ ; | ¥2. | | | | ¥ Ç | | | | | |
| IPR Production Decision | | | | | | | | | ¥ 2 | 1092 | | | | 2 5 | 1Q92 | | | | |
| I Dr. Available. | | | | | | | | | اُ | ١ | | | | 2 | | | | | Ī |
| Installation Schedule: | | | | ŀ | | | | - | | | | - | | | | | | | |
| Pr | _ | FY 1997 | . 1 | | - | FY 1998 | | - | | FY 1999 | | 4 | L | 8 | | - | FY 2001 | | |
| Totals 1874 | otals 1 | 334 2 | 334 a | 333 | 1 267 | 266 | 3 267 | 4 266 | - | 2 | e | 4 | - | 2 | 4 | + | 7 | 6 | 4 |
| 9 | | | 334 | 333 | 267 | 266 | | 266 | _ | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | FY 2 | FY 2002 | | | FY 2003 | 13 | | F | FY 2004 | | | | FY 2005 | | | To | | ို | Totals |
| | 1 2 | 3 | 4 | 1 | 2 | 3 | 4 | - | 2 | 3 | 4 | - | 2 | က | 4 Com | Complete | | | |
| Inputs | | | | | | | | | | | | | | | | | | | 4275 |
| Outputs | | | | | | - | | | | | | _ | | | | | | | 4275 |
| METHOD OF IMPLEMENTATION: | ATION: | Contrac | or tea | | SINIMO | TRATIV | ADMINISTRATIVE LEADTIME: | IME: | ; | | | E i | DDUCT | PRODUCTION LEADTIME: | OTIME: | | | | |
| Contract Dates: | | FY 1997 | | Mar 97 | | Œ ú | FY 1998 EV 4000 | Mar 98 | 86 | | | <u> </u> | FY 1999 EV 1000 | | | | | | |
| Delivery Date. | | L 1997 | | ٤ | | | 1330 | | | ı | | - | 1999 | | | | | | |

| | | | | | Z | DIVIDUA | L MOD | INDIVIDUAL MODIFICATION | z | | | | | | | Date | | Februa | February 1998 | |
|---|------|-----------|---------|-----------------|-------|--------------------|-------|-------------------------|-----|---------|-----|---------|-----|---------|-----|---------|----|--------|---------------|-----|
| MODIFICATION TITLE (Cont): | | ¥ | SU Pilk | ACU Pillow Bloc | k Mod | k Mod 1-91-05-4314 | 5-431 | 4 | | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | L | 1 | | | | | | | | | | | | | | | | | | |
| | and | and Prior | FΥ | FY 1997 | F | FY 1998 | F | FY 1999 | FY | FY 2000 | ΡY | FY 2001 | FY | FY 2002 | FY: | FY 2003 | TC | 0 | TOTAL | AL |
| | Qty | €9 | Qty | ₩ | Qty | s | QtA | ↔ | Qty | €9 | QtA | €9 | Ωţλ | €9 | Qt | 69 | Qţ | ક્ક | Ωţ | €9 |
| RDT&E PROCUREMENT Kit Quantity | | , a | | | | | | | | | | | | | | | | | | |
| Installation Kits | 4275 | 4.5 | | | | | | | | | | | | | | | | | 4275 | 4.5 |
| Equipment | | | | | | | | | | | | | | | | | | | | |
| Equipment, Nonrecurring Engineering Change Orders | | | | | | | | | | | | | | | | | | | | |
| Data | | | | | | | | | | | | | | | | | | | | |
| Training Equipment | | | | | | | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits | 1874 | 1.3 | 1335 | 0.9 | 1066 | 9.0 | | | | | | | | | | | | | 4275 | 2.8 |
| FY 1997 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 1998 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 1999 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 2000 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2001 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | | | | | | | | | | | | | | | |
| Total Installment | 1874 | 1.3 | 1335 | | 1066 | | | | | | | | | | | | | | 4275 | 2.8 |
| Total Procurement Cost | | 5.8 | | 6.0 | | 9.0 | | | | | | | | | | | | | | 7.2 |
| | | | | | | | | | | | | | | | | | | | | |

| | i | | | | | NDIN | DUAL | INDIVIDUAL MODIFICATION | SATION | | | | | | ı | I | Date | Ĭ. | February 1998 | 866 | Γ |
|--|--|----------------|---------------------|-------------------|------------------|---------------|---------|--------------------------|-------------------|------------------|---------------------|------------|-----------------|----------------------|---------|---------|---------------------|--------|---------------|-------|--------|
| MODIEICATION TITLE: | Vehicle Intercom System 1-90-05-4284 | Inte | rcom | Systen | n 1-90 | -05-4 | 284 | | | | | | | | | İ | | | | | |
| MODELS OF SYSTEMS AFFECTED: A2 ODS M2/M3 | AFFECTE | D: A2 | ODS | 12/M3 | | | | | | | | | | | | | : | | | | |
| DESCRIPTION / JUSTIFICATION: | CATION: | | | | | | | | | | | | | | | | | | | | |
| The VIS system is a replacement for the AN/VIC-1 intercom system. It is a digital intercom system which provides internal communications as well as access to the vehicle radios. This is a non-developmental item to be applied to the A2 ODS vehicles. | a replace | emel le rac | nt for 1 Jios. 7 | the AN This is | I/VIC- a non | 1 inter-devel | com s | ystem. ntal ite | It is a m to b | digita e app | Il inter lied to | com s | syster \2 OE | n which S vef | sh pro | vides | internal c | ommo | nicati | ons a | S |
| | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | S / MAJOF | A DEV | /ELOPI | 1. | MILESTONES | ONES: | | | | - | PLANNED | NED | - | | | | ACCOMPLISHED | PLISH | 回 | | |
| ο. | Preliminary Design Review: | Desig | n Revie | :M: | | | | | | | Z | ⋖ | | | | | NA | _ | | | |
| O | Critical Design Review: | ign Re | view: | | | | | | | | z | ⋖ | | | | | Y Y | _ | | | |
| O | Contractor Test and Evaluation: | Fest a | nd Eval | uation: | | | | | | | Z | ⋖ | | | | | Ϋ́ | _ | | | |
| ۵ | Development Test and Evaluation: | nt Tes | t and E | valuatio | <u>:</u> | | | | | | Z | 4 | | | | | Y Y | _ | | | |
| | Initial Operational Test and Evaluation: | tional | Testal | nd Evalu | ration: | | | | | | Ñ | 2095 | | | | | 20 | 2Q95 | | | |
| <u></u> | IPR Production Decision | tion D | ecision | | | | | | | | ĕ | Q95 | | | | | င္တ | 3095 | | | |
| Ė | TDP Available: | Se: | | | | | | | | | Z | ΑA | | | | | NA | | | | |
| Installation Schedule: | | | | | ł | | | | | | | | İ | | | | | | | | |
| <u>a</u> | Pr Yr | | FY 1997 | 2 | 1 | | FY 1998 | 38 | | | FY 1999 | 66 | | | Ŧ | FY 2000 | | | FY 2001 | - | |
| To | Totals 26 4 | - 6 | 2 64 | 80 | 4 8 | - 88 | 57 | 346 | 4 88 | - 2 | 2 2 | e 8 | 126 | 105 | 2 | က | 4 | + | ~ | 6 | 4 |
| Outputs | | 49 | 49 | 80 | 78 | 38 | 22 | 46 | 88 | 72 | 22 | 83 | 126 | 105 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | Ĺ | FY 2002 | Ņ | | | FY 2003 | 33 | | | FY 2004 | 4 | | | FΥ | FY 2005 | | | To | | Ĭ | Totals |
| | 1 | 2 | ဇ | 4 | - | 2 | 3 | 4 | - | 2 | 3 | 4 | - | 2 | 3 | 4 | Complete | olete | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | | 960 |
| Outputs | | _ | \dashv | \dashv | _ | \dashv | | | - | | | 1 | | | | | | | | | 960 |
| METHOD OF IMPLEMENTATION: | VTATION: | | ntracto | Contractor/Depot | | SINIMO | TRATIV | ADMINISTRATIVE LEADTIME: | TIME | Ġ | ≥ 9 | Months | | PRODUCTION LEADTIME: | JCTIO! | \ LEAD | TIME: | 9 W | Months | | |
| Contract Dates: | | <u> </u> | FY 1997 FY 1997 | žκ | Mar 97 Sep 97 | | LÍL | FY 1998 FY 1998 | S S | Mar 98 Sep 98 | | | | FY 1999 FY 1999 | തെ | | | | | | |
| | ١ | | | | | | | | | | l | l | ١ | | | | 1 | l | l | ١ | |

| MODIFICATION TITLE (Cont): | | | | | | - | | | | | | | | Date | | cool diminion | | |
|--|---------------------------|-----------|------------------|---------|---------------------|-----------------------------------|----------|---------|-----|---------|---------|-----|---------|------|-----|---------------|-------|------|
| 7 | ^ | ehicle Ir | Vehicle Intercom | | System 1-90-05-4284 | 5-4284 | | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | EV 1006 | _ | | | | | | | | | | | | | | | | |
| | and Prior | ΕŸ | FY 1997 | FY 1998 | 98 | FY 1999 | FY | FY 2000 | FY | FY 2001 | FY 2002 | 002 | FY 2003 | 003 | 7 | O | TOTAL | AL |
| | Oty \$ | Qty | \$ | Qty | Н | Oty \$ | Öţ | €9 | Qty | €9 | φ | ↔ | QÍ | છ | Oty | ક્ક | Oty | ક્ક |
| RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Equipment, Nonrecurring Equipment Training Equipment Support Equipment Other Interim Contractor Support | 553 | | 3.0 | 145 | 3.9 | | | | | | | | | | | | 096 | 15.3 |
| ∢ | APPLICATION SCHEDULED AND | SCHEDI | LED ANE | | TED AS | BUDGETED AS PART OF A2ODS PROGRAM | A20DS PI | HOGRAN | | | | | | | | | | |
| Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2003 Eqpt Kits TC Equip-Kits | | | | | | | | | | | | | | | | | | |
| Total Installment | | | | | | | | | | | | | | | | | | |
| Total Procurement Cost | 8.4 | 4 | 3.0 | | 3.9 | | | | | | | | | | | | | 15.3 |

| ## PINANCIAL PLAN: (\$ in Millions) FY 1996 | | | | | | | | | | | | | | | 1 |
|--|-------------------|--------------|---------|----------|---------|---------|----------|----------|---------|-----|---------|---|----------|-------|------|
| | DECA 1-93-05-4441 | - | | | | | | | | | | | | | |
| Nonrecurring recurring ringe Orders ent ent | | | | | | | | | | | | | | | |
| Nonrecurring recurring inge Orders ent ent | FY 1997 | FY 1998 | FΥ | FY 1999 | FY 2000 | 8 | FY 2001 | 15 | FY 2002 | FY | FY 2003 | 7 | H | TOTAL | 1. |
| Nonrecurring recurring inge Orders ent ent | \$ | Qty \$ | Qty | ₩ | Qty | | Oty | | Qty \$ | Qty | \$ | | \$ | Qty | €9 |
| APPLICATION BUDGET | 5.7 | 1. | 4.1 | 2.5 | | | | | | | | | | 148 | 21.1 |
| | ETED AS PAI | RT OF A1-A | 2 CONVE | EBSION A | AZ O | DS APPL | | z | | | | | | | |
| Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2002 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2003 Eqpt Kits FY 2005 Eqpt Kits FY 2005 Eqpt Kits FY 2005 Eqpt Kits FY 2005 Eqpt Kits | • | | | | | | | .,,,,,,, | | | | | | | |
| Total Installment | | - | | | | | \vdash | T | - | | | | \vdash | - | |
| Total Procurement Cost | 5.7 | - | 1.4 | 2.5 | | | | | | | | | | | 21.1 |

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|--|--|---------------------------|--------------|----------------|--------------------------|-----------------------------|------------|-------------------|-----------|-------------------|--|----------------------|------------------|--------------------|----------|---------------|--------|--------|
| MODIFICATION TITLE: | E: HALON | HALON Replacement 1- | | 92-05-4422 | 22 | | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: Bradley Fighting | MS AFFECTE | D: Bradley F | | /ehicle System | Ju. | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | TIFICATION: | | | | | | | | | | | | | | | | | |
| The Halon replacement program is in response to DOD and Army policy to eliminate the unnecessary release of Halon into the atmosphere. This program will provide an alternate agent to use in the BFV engine compartment fire extinguishers. | acement pro | gram is in n alternate | response | to DO use in | D and the BF | Army _F V engi | oolicy t | to elim npartn | inate the | he unr e extir | nse to DOD and Army policy to eliminate the unnecessary to use in the BFV engine compartment fire extinguishers. | ary rele irs. | ase of | Halon ii | nto the | atmos | phere. | |
| | | | | | | | | | | | | | | | | | | |
| | | , | | • | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MA.IOB DEVELOPMENT MILESTONES: | TUS / MA.IOF | 3 DEVELOP | MENT MILE | STONE | i | | | | | | | | | | | | | |
| | Preliminary Design Review: | Design Revie | .w: | | | | | | 30 | 3095 | | | | 1096 | | | | |
| | Critical Design Review: | gn Review: | | | | | | | 4 | 4096 | | | | 1097 | | | | |
| | Contractor Test and Evaluation: | est and Eval | luation: | | | | | | Ż | A | | | | Ą | | | | |
| | Development Test and Evaluation: | It Test and E | valuation: | | | | | | 40 | 4096 | | | | | | | | |
| | Initial Operational Test and Evaluation: | tional Test a | nd Evaluatic | Ë | | | | | ż | NA A | | | | ¥ | | | | |
| | IPR Production Decision | ion Decision | | | | | | | 20 | 2098 | | | | | | | | |
| | Approve ECP: | انه | | | | | | | 20 | 2098 | | | | | | | | |
| Installation Schedule: | • | | | | | | | | | | | | | | | | | |
| | Pr Yr | FY 1997 | 2(| | FY 1998 | 866 | | | FY 1999 | 66 | | ш | FY 2000 | | | FY 2001 | 001 | |
| | Totals | 1 2 | 3 4 | - | 2 | 6 | 4 | - | 2 | က | | | | | - | 2 | 3 | 4 |
| Outputs | | | | | | | 264 264 | 811 | 811 | 811 | 812 | 803 803 8 | 803 803 80 | 803 802 803 802 | | | | |
| | | | | | | | | | | | | | | | | | | |
| | Ē | FY 2002 | | FY 2003 | - 1 | | | FY 2004 | 94 | | | FY 2005 | | | To | | - | Totals |
| | - | 2 3 | 4 | 2 | 6 | 4 | - | 7 | 3 | 4 | - | 2 | 3 | δ | Complete | | | |
| Inputs Outputs | | | | | - | | | | | | | | | | | | | 6720 |
| METHOD OF IMPLEMENTATION: | MENTATION: | Contractor Teams | r Teams | ADMIN | ADMINISTRATIVE LEADTIME: | VE LEA | DTIME: | | ğ 9 | Months | PR | PRODUCTION LEADTIME: | ON LEA | DTIME | 12 | Months | | |
| Contract Dates: | | FY 1997 | Y X | | 0 | FY 1998 | | Mar 98 | | | 2 | FY 1999 | | | | | | |
| Delivery Date. | | 1881 | Y/A | | | 1 1996 | | ¥. | | ١ | ב | FY 1999 | | | | | | |

| HALON Replacement 1-92-05-4422 Hons | | | | | | N | IVIDUA | L MODIF | INDIVIDUAL MODIFICATION | z | | | | | | | Date | | February 1998 | y 1998 | |
|--|----------------------------------|-----------|---------------|---------------|----------------|-----------------------|-----------------|-------------|-------------------------|----------|----------------|---------------------|---------|---------------|---------------|--------------|-----------|------|---------------|--------|-----|
| | MODIFICATION TITLE (Cont): | | HAI | ON | eplace | ment 1 | -92-05 | -4422 | | | | | | | | | | | | | |
| Nonrecurring recurring ange Orders ent ent ent or Support or Support - Kits - K | FINANCIAL PLAN: (\$ in Millions) | L | g | | | | | | | | | | 4 | | | | | | | | |
| Nonrecurring recurring unge Orders ent ent ent or Support or Support Kits - | | and Pri | ة ق | FY 1 | 266 | FY 1 | 966 | FY 1 | 666 | FY 2 | 0000 | FY, | 2001 | ᅜ | FY 2002 | F | FY 2003 | TC | | TOTAL | AL |
| Nonrecurring recurring unge Orders ent ent ent or Support | | Qţ | S | οţ | ↔ | Ωţ | s | δţ | 49 | ά | \$ | Öf | ↔ | Qţ | () | Qty | 49 | οţ | 49 | σţ | 49 |
| Nonrecurring recurring nnge Orders ent ent or Support or Support | RDT&E PROCUREMENT | | | | *** | | | | | | | | | | | | | | | | |
| curring ng rders | Kit Quantity | | | | | | | | | | | | | | | | | | | | |
| ng rders rders - Kits | Installation Kits | | | | | 6720 | 4.4 | | | | | | | | | | | | | 6720 | 4.4 |
| ng rders port Kits | Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| ng rders Poort Kits | Equipment | | | | | | | | | | | | | | | | | | | | |
| port Kits | Equipment, Nonrecurring | | | | | | e. O | | | | | | | | | | | | | | 0.3 |
| port Kits | Engineering Change Orders | | 1 | | 9 | | | | | | - Constitution | | | | | | | | | | 7 |
| port Kits | Cald | | ? | | 9 | | | | | | | | | | | | | | | | ř |
| port Kits | raining Equipment | | | | | | | | | | | | | | | | | • | | | |
| pont :- Kits | Support Equipment | | | | | | | | | | | | | | | | | | | | |
| F - Kits | Orner | | | | | | | | | | | | | | | | | | | | |
| - Ki | Interim Contractor Support | | | | | | | | | | | | | | | | | | | - | |
| - Kits | | | | | | | | | | | | | | | | | | | | | |
| ODS field retrofit are reflected on their respective P-Forms. 1 Kits 160 0.0 2835 0.1 2835 160 0.1 2835 160 0.0 2835 160 0.1 2835 160 0.0 2835 160 0.0 2835 160 0.0 2835 160 0.0 2835 160 0.1 2835 160 0.0 2835 16 | | NOTE: Ins | tallation | ا م quanti | l ty and co | - St reflec | l t field re | trofit only | l y. Applic | ations o | ccuring c | Juring A | 1-A2 co | l nversior | , A0-A2 | l remanuf | acture ar | _ 2. | | | |
| 1 Kits 160 0.0 2835 0.1 2835 160 0.0 2835 | | ODS field | retrofit | are refl | ected on | their res | pective | P-Forms | | | | | | | | | | | • | | |
| 1 Kits 160 0.0 2835 0.1 2835 160 0.0 2835 | Installation of Hardware | | | | | | | | | | | | | | | | | | | | |
| 1 - Kits | FY 1996 & Prior Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| tt – Kits tt – Kits tt – Kits tt – Kits tt – Kits tt – Kits ent – Kits | FY 1997 Eqpt Kits | | _ | | | 160 | 0.0 | | 0.1 | 2835 | 0.1 | | | | | | | | | 5830 | 0.2 |
| ot - Kits ot - Kits ot - Kits ot - Kits ot - Kits ot - Kits ot - Kits ot - Kits | FY 1998 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| ot - kits ot - kits ot - kits ot - kits ot - kits ot - kits ot - kits | FY 1999 Eqpt Kits | | - | | | | | | | | | | | | | | | | | | |
| ot kits st kits st kits ent 160 0.0 2835 0.1 2835 | FY 2000 Eqpt kits | | | | | | | | | | | | | | | | | | - | | |
| ot kits ot kits ent 160 0.0 2835 0.1 2835 | FY 2001 Eqpt kits | | | | | | | | | | | | _ | | | | | | | | |
| ot kits ent 160 0.0 2835 0.1 2835 | FY 2002 Eqpt kits | | | , | | | | | | | | | | | | | | | | | |
| ent 160 0.0 2835 0.1 2835 | FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| 160 0.0 2835 0.1 2835 | TC Equip-Kits | | | | | | | | | | | | | | | | | | | | |
| | Total Installment | | | | | 160 | 0.0 | 2835 | 0.1 | 2835 | 0.1 | | | | | | | | | 5830 | 0.2 |
| 3.7 0.6 4.7 0.1 | Total Procurement Cost | | 3.7 | | 9.0 | | 4.7 | | 0.1 | | 0.1 | | | | | | | | | | 9.5 |

| | | INDIVIDITAL MODIFICATION | DIFICATIO | 2 | | | | | | 500 | 100 | 900 | |
|---|--|--------------------------|-----------|-----------------------|----------|--------------------|---------|----------------------|---------|---------------------------|--------|---------------|--------|
| | | | | | | | | | | Jaie | Lap | rebruary 1998 | |
| MODIFICATION TITLE: Armor Tiles 1-84-05-4 | 1-84-05-4038 | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: M2A2(IFV)/M3A2(CFV) | 2A2(IFV)/M3A2(CFV) | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | | | | | | | | | | | | | |
| Armor tiles are one of the High Survivability improvements to the BFVS. The tiles provide increased armor protection for shaped charge threats, including hand held heat and other classes of warheads as specified in the BFVS material need area. There are 5 configurations of | Survivability impro | vements to the | BFVS. T | he tiles fied in t | provid | e increa S mate | ased a | rmor pr ed area | otectio | in for shap e are 5 co | ed cha | arge | Ď |
| tiles covering the vehicle front, sides and turret. | sides and turret. | | - | | | | | | | | , | | ; |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | VELOPMENT MILESTONES: | ONES: | | 리 | PLANNED | ā | | | ACCO | ACCOMPLISHED | Ω | | |
| Preliminary Design Review: | ın Review: | | | | Y Z | | | | | | | | |
| Critical Design Review: | əview: | | | | 3090 | • | | | ., | 3030 | | | |
| Contractor Test and Evaluation: | ind Evaluation: | | | | Y Z | | | | | | | | |
| Development Test and Evaluation: | st and Evaluation: | | | | Y Z | | | | | | | | |
| Initial Operational | Initial Operational Test and Evaluation: | | | | ¥ Z | | | | | | | | |
| IPR Production Decision | ecision | | | | 209 | 01 | | | • | 2093 | | | |
| TDP Available: | | | | | ¥ | | | | | | | | |
| Installation Schedule: | | | | | | | | | | | | | |
| Pr Yr Totals | FY 1997 | FY 1998 | ~ | - | FY 1999 | 0 | | FY 2000 | 000 | - | Ľ - | FY 2001 | 0 |
| | | | | - | | | | | | | | | |
| Outputs | | | | | + | 4 | | | | | _ | | |
| FY 2002 | 72 | FY 2003 | | FY 2004 | 4 | | F | FY 2005 | | | 10 | | Totals |
| 1 2 | 3 4 1 | 2 3 | 1 | 2 | 3 | 4 | - | 2 3 | 4 | Complete | 9 | | |
| Inputs Outputs | : | | | | | | | | | | | | |
| OF IMPLEMENTATION: | Troop installed Al | ADMINISTRATIVE LEADTIME: | EADTIME | | 6 Months | ths | PRO | PRODUCTION LEADTIME: | LEADT | IME: 6 | Months | hs | |
| ió | | FY 1998 | 866 | | | | FY 1999 | 66 | | | | | |
| Delivery Date: | FY 1997 Jan 99 | FY 1998 | 866 | | | | FY 1999 | 66 | | | | | |

| MODIFICATION TITLE (Cont): FINANCIAL PLAN: (\$ in Millions) FY 1996 and Prior ADT&E PROCUREMENT | ٧ | | | | | | The second secon | | - | | | | | - | | - | | - |
|---|-----------|-----------------|---------|-----------|-----|---------|--|---------------|--------------|---------------|-----|---------|------|---------|----|----|-------|------|
| | 2 | Armor Tiles 1-8 | es 1-84 | 4-05-4038 | 38 | | | | | | | | | | | | | |
| o | 1006 | | | | | | | | | | | | | | | | | |
| σ | and Prior | FY 1997 | 266 | FY 1998 | 966 | FY 1999 | - | FY 2000 | F | FY 2001 | FY: | FY 2002 | FY 2 | FY 2003 | TC | | TOTAL | AL |
| RDT&E PROCHREMENT | 69 | Qty | 69 | Qţ | €9 | Qty | \$ Oty | \$ | ģ | () | Qţ | ₩. | Qty | ક્ર | Š | 69 | Qţ | 69 |
| | 4.0 | | | | | | | | | | | | | | | | | 4.0 |
| Kit Quantity | | | | | | | | | | | | | | | | | | |
| Installation Kits 136 | 34.3 | 110 | 23.5 | | | | | ····· | | | | | | | | | 246 | 57.7 |
| Nonrecurring | | | | | | | | | - | | | | | | | | | |
| Equipment | | | | | | | | | _ | _ | | | | | | | | |
| Equipment, Nonrecurring | | | i (| | | | | | | | | | | | | | | č |
| Engineering Change Orders | | | c. | | | | | | | | | | | ,, | | | | 0.0 |
| Data | | | | | | | | - | | | | | | | | | | |
| Training Equipment | | | | | | | | | | | | | | | | | | |
| Support Equipment | | | | | | | | | | | | | | - | | | | |
| Other | 6.3 | | 8.8 | | | | | | | | | | | | | | | 15.1 |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | - | | | | | | | | _ | | | | | | |
| FY 1996 & Prior Eqpt Kits | | | | | | - | | | | | | _ | | | | | | |
| FY 1997 Eqpt Kits | | | | | | | | | | | | | | | | | | |
| FY 1998 Eqpt Kits | | | | | | | | | | | | _ | | | | | | |
| FY 1999 Eqpt Kits | | | | | - | | | | | | | _ | | | | | | |
| FY 2000 Eqpt kits | | | | | | | | | | | | | | | | | | |
| FY 2001 Eqpt kits | | | | | | | | | | | | _ | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | · | | | |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | + | + | - | \downarrow | | | | | | | | | |
| Total Installment | | | | | | | + | + | | | | | | | | 1 | | |
| Total Procurement Cost | 40.6 | | 32.7 | | | | + | | _ | | | | | | | | | 73.3 |

| | | NONI | INDIVIDUAL MODIFICATION | ODIFICA | TION | | | | | | Date | Febr | February 1998 | |
|---|--|--------------------------|-------------------------|--------------------|--------------------|------------|--------------------|------------------|----------------------|---------------------|---------------------------|---------------------|---------------------|--------------|
| MODIFICATION TITLE: A2 Card | A2 Card Retrofit 1-96-05-4517 | 4517 | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: TOW 2 Subsystem (T2SS) Misslie Guidance System (MGS) |): TOW 2 Subsystem | (T2SS) Miss | le Guida | nce Syste | m (MGS | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | | | | | | | | | | | | | | |
| The relay/squib circuit card assembly (CCA) controls the power up/power down functions of the MGS and provides indications of missile launch. Ilight status and modes of operation. It also generates the PREFIRE and FIRE squib control signals required to launch the missile and | assembly (CCA) of | controls that also gen | e powe | up/pov | ver dov | in funct | ions of E squit | the Mo | 3S and | provide s requir | s indicatic ed to laur | ons of mi | issile nissile a | pue |
| the WIRECUT squib control signal used to cut the missile quidance wires. This mod will add a semiconductor device diode across resistor "R39" on the A2 CCA to increase the speed of discharge for capacitor C21 and to prevent an inadventent missile launch. | signal used to cu | t the miss | le quida e for ca | ance wi | res. Thi C21 ar | s mod | will add | a serr n inad | iconduc | tor dev | ce diode | across r | esistor | 3 |
| | <u> </u> | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | | MILESTONES: | | | | | PLANNED | 日 | | | ACCOM | ACCOMPLISHED | Q | |
| Preliminary D | Preliminary Design Review: | | | | | | N/A | 4 | | ٠ | N/A | _ | | |
| Critical Design Review: | in Review: | | | | | | Ż | ∢ | | | N/A | _ | | |
| Contractor Te | Contractor Test and Evaluation: | | | | | | Ż | N/A | | | A/N | _ | | |
| Development | Development Test and Evaluation: | | | | | | Ż | 4 | | | N/N | _ | | |
| Initial Operation | Initial Operational Test and Evaluation: | tion: | | | | | Ż | ∢ | | | N/N | _ | | |
| IPR Production Decision | on Decision | | | | | | ÷ | 1096 | | | 5 | 1096 | | |
| TDP Available: | .ie | | | | | | - | 1096 | | | 5 | 1096 | | |
| Installation Schedule: | | | | | | | | | | | | | | |
| Pr∀r | FY 1997 | | FY 1998 | _ | | FY 1999 | 666 | | Ĺ | FY 2000 | | ĬΨ | FY 2001 | |
| Totals | 1 2 3 | 1 600 | 2 009 | 3 4 | 1 215 | 214 | 214 | 4 4 | - | 3 | 4 | - | 3 | 4 |
| Outputs | | 009 | | | | | 214 | 214 | | | | | | |
| | | | | | | | | | | | | | | |
| F | 2002 | FY 2003 | 23 | - | Ŧ | FY 2004 | | | FY 2005 | | | 2 | | Totals |
| - | 2 3 4 | 1 2 | ဇ | 4 | 1 2 | 8 | 4 | - | 2 | 3 4 | Complete | ete | | |
| Inputs Outputs | | | | | | | | | | | | | | 3258 3258 |
| METHOD OF IMPLEMENTATION: | Contractor teams | ADMINISTRATIVE LEADTIME: | TRATIVE | LEADT | ME: | 6 | Months | P | PRODUCTION LEADTIME: | ON LEAD | TIME: | 2 Months | hs | |
| Contract Dates: Delivery Date: | FY 1997 Sep 97 FY 1997 Nov 97 | 97 | <u>}</u> | FY 1998 FY 1998 | May 98 Jul 98 | 6 0 | | Œ Œ | FY 1999 FY 1999 | | | | | |
| | ١ | | | | | l | l | | | | | | l | |

| | | | | | ĭ | NIDOA | INDIVIDUAL MODIFICATION | ICATION | | | | | | | - | Date | | February 1998 | y 1998 | |
|---|-------|----------------------|---------------------------------|-----------------|-----------|---------|----------------------------------|-----------|----------|-----|---------|-----|---------|-----|---------|------|-----|---------------|--------|-----|
| MODIFICATION TITLE (Cont): | | A2 | A2 Card Retrofit 1-96-05-4517 | Petrofit | 1-96-0 | 5-451 | | | | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | | | | | | | | | | | | | | | | | | | | |
| | F g | FY 1996 and Prior | FY 1997 | 266 | FY 1998 | 866 | FY 1999 | 66 | FY 2000 | 000 | FY 2001 | 201 | FY 2002 | 002 | FY 2003 | 003 | TC | | TOTAL | AL. |
| | Qty | €9 | Oty | \$ | Qty | \$ | Qty | Н | Qty | 49 | Oty | €9 | Oţ. | \$ | Qty | € | Qty | s | άţ | 49 |
| HDI &E PROCUPEMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment Equipment | | | 3258 | 0.8 | | | | | | | ·- | | - | | | | | | 3258 | 0.8 |
| Engineering Change Orders Data Training Equipment Support Equipment Other | | | | | | | | | | | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
| | NOTE: | Applicati | NOTE: Application costs are inc | are incl. | d ui bebi | rocurem | luded in procurement unit price. | rrice. | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | - | | | | | | | |
| FY 1996 & Prior Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 1998 Eqpt Kits | | | | | | | | | | | | | | | | | | | • | |
| FY 1999 Eqpt Kits | | | | | | | | | | | | • | | | | | | | | |
| FY 2000 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2001 Eqpt kits FY 2002 Eqpt kits | | | | | | | | | | | | - | | | | | | | | |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | | | \dagger | \dashv | | | | | | | | | | | |
| Total Installment | | | | | | | | 1 | 1 | 7 | 1 | | | | | | | | | |
| Total Procurement Cost | | | | 9.0 | | | | | | | | | | | | | | | | 0.8 |

| | | INDIVIDUAL MODIFICATION | AODIFICATIO | NO | | | Date | | February 1998 | |
|---|--------------------------------------|------------------------------|----------------------------|------------------------|------------------------------|---|----------------------|----------------------|-------------------------|--------|
| MODIFICATION TITLE: A2 ODS Applic | A2 ODS Applique 1-98-05-4539 | 6 | | | 0 | | | | | |
| MODELS OF SYSTEMS AFFECTED: Bradley Fighting | y Fighting Vehicle Systems | Systems | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | | | | | | | | | | |
| ODS Vehicle Applique: For Force XXI and the First Digitized Division, the Bradley Infantry vehicles will be integrated with the Army's | e XXI and the Fi | irst Digitized | Division, 1 | the Bradley | / Infantry ve | shicles will be | integrated | with the | Army's | ţ |
| and interfacing the vehicle systems (Bradley Eyesafe Laser Rangefinder and Position/Navigation System) to to applique (+) to provide Laser | s (Bradley Eyes | afe Laser R | angefinder | and Posit | ion/Navigat | ion System) 1 | to to appliq | ue'(+) to p | rovide Las | je je |
| Designation and Steer-to capability. The Br | y. The Bradley I | nfantry varie | ant will also | include a | n additional | radley Infantry variant will also include an additional display in the hull for squad situatioal awareness | e hull for so | and situa | tioal awar | sseue |
| M2A3 Vehicle Applique: M2A3 will incorperate the Army's embedded Battle Command Software into the vehicle's turret computer to ensure | incorperate the | Army's emi | ariuer's aw oedded Ba | areness w ttle Comm | and Softwa | re into the ve | hicle's turr | dernade et comput | position. er to ensu | ē |
| interoperability with FBCB2. PM Bradley jointly with PM Abrams is working a common integration approach that consists of utilizing the GCSS common processor card (Power PC-VME card). This will be an additional processor card for the M2A3 to incorporate EBC. | radley jointly wit C-VME card). T | th PM Abrar his will be a | ns is worki n additione | ng a commal processor | non integrat or card requ | intly with PM Abrams is working a common integration approach that consists of utilizing card). This will be an additional processor card required for the M2A3 to incorporate EBC. | that consideral | sts of utilization | zing the G | SSC |
| | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | OPMENT MILESTONES: | | PLANNED | | ACTUAL | | | | | |
| Preliminary Design Review: | | | 26/2 | | 26/2 | | | | | |
| Critical Design Review: | , | | 1/96 | | 1/96 | | | | | |
| LUT: | | | 86/6 | | | | | | | |
| IOT&E: | | | 10/99 | | | | | | | |
| | | | 66/11 | | | | | | | |
| 1 - 4 - 1 - 4 - 5 4 - 1 - 4 - 1 | | | | | | | | | | |
| Pr Yr FY | FY 1997 | FY 1998 | 88 | | FY 1999 | <u> </u> | FY 2000 | | FY 2001 | |
| 1 | 2 3 4 | 1 2 | 3 4 | 1 | 2 3 | 4 | 2 3 | 4 | | 3 4 |
| Inputs Outputs | | | | | | | 126 | 23 23 126 23 | | 23 |
| | | | | | | | - | | | |
| 2002 | | 5003 | - | FY 2004 | | | | <u>ا</u> | | Totals |
| Inputs | 4 | n | 4 | N | 4 | 7 | 4 | Complete | | 195 |
| APLEMENTATION: | or applied | ADMINISTRATIVE LEADTIME: | 'E LEADTIME | o iii | Months | PRODUCTIO | PRODUCTION LEADTIME: | 12 | Months | |
| Contract Dates: FY 1997 Delivery Date: FY 1997 | 197 197 | ir (r | FY 1998 FY 1998 | | | FY 1999 FY 1999 | Jun 99 | | | |
| | | | | | | | | | | |

| | | | | es. | 7.0 0.5 0.5 0.5 | | 10.9 |
|-------------------------|----------------------------|----------------------------------|-----------|------|--|-------------------|------------------------|
| 98 | | | TOTAL | οţ | 126 69 | | 1 |
| February 1998 | | | - | Н | | | - |
| 16. | | | TC | \$ / | | | _ |
| | | | F | Ωţγ | | | \parallel |
| Date | | | FY 2003 | ₩. | | | \parallel |
| | | | | ð | | | 4 |
| | | | FY 2002 | €9 | | _ | |
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| | | | FY 2001 | ₩ | | | |
| | | | - | ģ | | | |
| | | | FY 2000 | ↔ | | | |
| NO | | | 4 | Ofy | 0.0 % % % % % % % % % % % % % % % % % % | | 6. |
| JIFICAT | | | FY 1999 | G | | | 10.9 |
| JAL MOI | 539 | | (E) | Öţ | 126 | | |
| INDIVIDUAL MODIFICATION | ue 1-98-05-4539 | | FY 1998 | €9 | <u>.</u> | | |
| _ | 3-1 ent | | 1 | Ö | nent cos | | |
| | A2 ODS Appliqu | | FY 1997 | €9 | orocuren | | |
| | 2 ODS | _ | Œ | ğ | nded in | | |
| | • | 1006 | and Prior | 49 | are incl | | |
| | | L | | ģ | on costs | | |
| | (Cont): | Millions | | | n Kits ring Kits g ange Orders ment ment nent nord stor Support tric Eqpt Kits tric Kits | | ost |
| | N TITLE | AN: (\$ in | | | on Kits ing the part of the pa | nent | ement C |
| | MODIFICATION TITLE (Cont): | FINANCIAL PLAN: (\$ in Millions) | | | RDT&E PROCUREMENT Kit Quantity ODS Installation Kits ODS Nonrecurring A3 Installation Kits A3 Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support FY 1996 & Prior Eqpt Kits FY 1998 expt Kits FY 1998 expt Kits FY 1999 expt Kits FY 1999 expt Kits FY 1999 expt Kits FY 1999 expt Kits FY 2000 expt Kits FY 2000 expt Kits FY 2000 expt Kits FY 2000 expt Kits FY 2000 expt Kits FY 2000 expt Kits FY 2000 expt Kits FY 2000 expt Kits FY 2000 expt Kits FY 2000 expt Kits FY 2000 expt Kits FY 2000 expt Kits FY 2000 expt Kits | Total Installment | Total Procurement Cost |
| | MODIF | FINAN | | | RDT&E PROCU Kit Que ODS Inst ODS No A3 Inst A3 Not Engine Data Trainin Suppo Other Interim FY 1 FY 1 FY 1 FY 2 FY 2 FY 2 FY 2 FY 2 FY 2 FY 2 FY 2 | Tota | Tots |

| | | | | | | | | Date: | | | | |
|--|--|------------------------|----------------------|-------------------------|---------------------------------|------------------------|---------|-----------------|---|------------------|-------------|------------|
| | | Exhibit P-40, Budget I | | tem Justification Sheet | tion Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | ial No: | | | | | P-1 Item Nomenclature: | :0: | | | | | |
| PROCUREMEN | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combal Vehicles | CMBT VEHS / 1 / Tra | icked Combat Vehicle | S. | | | | HOWITZER, MED S | HOWITZER, MED SP FT 155MM M109A6 (MOD) (GA0400) | 6 (MOD) (GA0400) | | |
| Program Elements for Code B Items: | is: | | | Code: | Other Related Program Elements: | nm Elements: | | | | | | |
| | | | | ٧ | | | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 698.5 | 226.9 | 282.0 | 95.4 | 72.8 | 11.3 | 9.1 | 5.5 | 0.1 | 0.0 | 9.5 | 1411.2 |
| Less PY Adv Proc | 16.3 | | | | | | | | | | | 16.3 |
| Plus CY Adv Proc | 16.3 | | | | | | | | | | | 16.3 |
| Net Proc (P-1) | 698.5 | 226.9 | 282.0 | 95.4 | 72.8 | 11.3 | 9.1 | 5.5 | 0.1 | 0.0 | 9.5 | 1411.2 |
| Initial Spares | 1.6 | 1.9 | 2.4 | 6.4 | 3.6 | | | | | | | 15.9 |
| Total Proc Cost | 700.1 | 228.8 | 284.4 | 101.8 | 76.4 | 11.3 | 9.1 | 5.5 | 0.1 | 0.0 | 9.5 | 1427.1 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| DESCRIPTION: | | | | | | | | | | | | |

Funds the procurement of approved modifications to the 155MM M109 Self-Propelled Howitzer. The fiscal program identifed herein reflects the economies and efficiencies of a competitive multiyear contract strategy. (See detailed description/justification on following exhibit P-3A)

COOPERATIVE AGREEMENTS:

low rate production contract in September 1990. In April 1993, FMC Corporation (now known as United Defense, Limited Partnership, Paladin Production Division) won a production phase and has been named the M109A6 Paladin. The U.S./Israeli Joint Development Agreement has expired effective with the Paladin Milestone III Full Scale Production Decision. The system developer, BMY, a Division of Harsco Corporation, was awarded a full scale engineeering development contract in October 1985, and a program incorporated already developed items, together with items which were developed under contract, into prototype M109s. DA and MOD supplied their own M109s Ministry of Defense (MOD), agreed to cooperate on a joint development project to improve the M109 Series 155mm Self-Propelled Howitzer in November 1985. This The Government of the United States of America, as represented by the Department of the Army (DA), and the Government of Israel (GOI), as represented by the for prototype work. GOI funding for its share of the program was \$30.7 million over Fiscal Years (FY) 1986-1990. The U.S. Howitzer is currently in the full scale competitive multiyear procurement contract for full scale production of remaining Paladin requirements during FY 1993-1996 programs.

| Exhibit P. | Exhibit P-40M Budget Item Justification Sheet | em Justifice | ition Sheet | | | Date | | February 1998 | | |
|--|---|--------------|--|-----------------------|---------|-----------------|---|------------------|-----|---------|
| Appropriation / Budget Activity/Serial No. PRIND CMBT VEHS / 1 / Tracked Combat Vehicles | Tracked Combat Vehicles | | | P-1 Item Nomenclature | 8 | HOWITZER, MED ! | HOWITZER, MED SP FT 155MM M109AG (MOD) (GA0400) | 6 (MOD) (GA0400) | | |
| Program Elements for Code B Items | | Code | Other Related Program Elements | m Elements | | | | | | |
| Description | Fiscal Years | | | | | | | | | |
| OSIP NO. Classification | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | TC | Total |
| Howitzer Improvement Program 1-81-05-1002 unclassified | 1,207.4 | 95.4 | 66.5 | 11.3 | 9.1 | 5.5 | 0.1 | 0.0 | 0.0 | 1,395.3 |
| Chlorofluorocarbon (CFC) Elimination | | | | | | | | | | |
| 1-96-05-1003 unclassified | 0.0 | 0.0 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.5 | 15.8 |
| Totals | 1,207.4 | 95.4 | 72.8 | 11.3 | 9.1 | 5.5 | 0.1 | 0.0 | 9.5 | 1,411.1 |
| | | | | | | | | | | |
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| | | | Annual Control of the | | | | | | | |
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| | | | | | | | | | | |

| INDIVIDUAL MODIFICATION | Date | February 1998 |
|--|------|---------------|
| nent Pr | | |
| MODELS OF SYSTEMS AFFECTED: Howitzer, MED Sp Ft 155mm M109 Ser (Mod) (MYP) | | |
| DESCRIPTION / JUSTIFICATION: | | |

Arsenals, respectively, are shipped to the contractor for final integration and assembly, and acceptance testing. The acquisition strategy for FY89/90-FY92 called for sole source Mission Element Need Statement (MENS), approved by the Secretary of Defense in December 1980. The production phase of the program involves a combined effort between Letterkenny Army Depot and the contractor. M109A2/A3 Howitzers from CONUS and OCONUS field units are being shipped to Letterkenny Army Depot. Letterkenny removes traverse mechanism, disassembles the howitzer, reconditions turret components to be reset in the new turret, and overhauls/ modifies the chassis to the Paladin configuration. The M109A6 Paladin, approved for full scale production, has been designed to upgrade the M109A2/A3 Howitzer's responsiveness, effectiveness, survivability; and Reliability, Availability, and Maintainability-Durability (RAM-D). This meets the user's urgent need for a product improved system that satisfies the deficiencies cited in these areas by the contracts. An FY93-FY96 competitive multiyear production contract was awarded to UDLP in April 1993. In April 1997, a contract modification was awarded to the existing The reconditioned turret components, and the overhauled/modified chassis with the new M284 Cannon and M182 Gun Mount manufactured by Watervliet and Rock Island multiyear production contract for an additional 37 M109A6 Paladins. An FY98 contract option for 36 vehicles was awarded in November 1997.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

M109A6 Paladin was approved for Type Classification-Standard and full rate production and deployment. This Milestone III is documented in Acquisition Decision Memorandum decided to merge the Howitzer Extended Life Program (HELP) into the HIP where kits from both programs would be applied to the M109A2/A3 Howitzer. The improved 155mm The M109A6 was approved for entry into full scale development in November 1984. At that time, DA decided to modify M109A2/A3 Howitzers to a HIP configuration. It it was Self-Propelled Howitzer was approved for Type-Classification Low Rate Production (TC-LRP) and designated the M109A6 Howitzer following a Milestone III-A ASARC on 7 February 1990. In March 1993 a Milestone III Pre-ASARC review was chaired by the Assistant Secretary of the Army for Research, Development and Acquisition, and the dated 9 April 1993. The Paladin production program is within schedule and, as of February 1998, successfully fielded 487 M109A6 Howitzers and all associated Items of equipment. All major development milestones for the M109A6 Paladin Howitzer have been successfully completed.

| Installation Schedule: | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---------|---------|-------------------------|--------|--------|-----|---------|---------|--------------------------|-------|---------|----------|--------|----|---------|----------------------|---------|-------|----------|-----------|---------|---|--------|
| | Pr Yr | | FY 1997 | 97 | | | Ε¥ | FY 1998 | | - | | FY 1999 | 66 | | | F | FY 2000 | | | | FY 2001 | - | |
| | Totals | - | 2 | 3 | 4 | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | - | 2 | | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | 222 | 54 | 54 | 54 | 24 | 54 | | 54 | 53 | 18 | | _ | | | | | | | _ | | | | |
| Outputs | 417 | 49 | 54 | 22 | 55 | 54 | | 54 | 54 | 54 | 41 | 18 | 18 | 18 | 6 | | | | \dashv | - | | - | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | FY 2002 | 02 | | | F | FY 2003 | | \vdash | | FY 2004 | 4 | H | | FΥ | FY 2005 | | | | ပ္ | | ľ | Totals |
| | 1 | 2 | 3 | 4 | - | | 2 | 3 | 4 | - | 2 | 3 | 4 | - | 2 | | 3 | 4 | Complete | ete | | | |
| Inputs | | | | | | | | | | | | | _ | | | | | | | | | | 950 |
| Outputs | | | | | | | | | | | | | | | | | | _ | | | | | 950 |
| METHOD OF IMPLEMENTATION: | ENTATIO | | Depot/Contractor | ntract | ٦٢ | ADM | NISTR. | ATIVE | ADMINISTRATIVE LEADTIME: | IIME: | | ₩ | Months | | PROD | PRODUCTION LEADTIME: | NLEA | DTIME | | 19 Months | onths | | |
| Contract Dates: | | ш | FY 1997 | | Apr 97 | | | F | FY 1998 | ž | Nov 97 | | | | FY 1999 | 6 | | | | | | | |
| Delivery Date: | | ш | FY 1997 | _ | Nov 98 | | | F | FY 1998 | Ju | Jun 99 | | | | FY 1999 | 6(| | | | | | | |

| | | | | | 4 | JOIVIDU | AL MODIF | INDIVIDUAL MODIFICATION | 7 | | | | | | | Date | | Februa | February 1998 | |
|---|-----------|-----------|--------|-----------------|-------|----------------|----------|-----------------------------|-----------|--------|-------|------|------------|-----|-------|------|--------|--------|-----------------|--------------------|
| MODIFICATION TITLE (Cont): | | Ĭ | witzer | Howitzer Improv | /emen | t Progr | am 1-81 | vement Program 1-81-05-1002 | 8 | | | | | | | | | | | |
| EINANCIAI DI AN: (\$ in Millione) | | | | | | | | | | | | | 0 | | | | | 0 | | |
| THANKONE LENK (4 III MIIIIONS) | ΕĄ | FY 1996 | | | | | | | | ļ | i | | | | | | ľ | | | |
| | and Ot | and Prior | Ž ≱ | FY 1997 | Ž | FY 1998 | Ctv \$ | 866 | City 2000 | 900 | Ofv 4 | 50 8 | Cty \$ 002 | 8 8 | Qty 8 | 8 | S S | ₩ | Of V | AL ** |
| RDT&E PROCUREMENT | 3 | 149.4 | | 1 | | | | | | | | | | | | | | | 0 | 149.4 |
| Kit Quantity |) o | | 'n | | 8 | | | | | | | | | | - | | | | 2 | |
| Equipment | | 698.8 | | 40.1 | | 37.3 | | 0.5 | | 6.4 | | 5.5 | | 0.1 | | | | | | 787.2 |
| Equipment, Nonrecuring | | 233.3 | | t.5 | | 4 6 | | c | | 2 | | | | | | | | | | 108.4 |
| Engineering Change Orders Data | | 11.7 | | 2.3 | | 0.5 | | 3 | | j | | | | | | | | | | 14.5 |
| Training Equipment | | 14.1 | | | | | | | | | | | | | | | | | | 14.1 |
| Vehicular Intercom System | | 9.2 | | 0.4 | | 0.4 | | | | | | | | | | | | | | 10.0 |
| Other | | 4.4 | | 0.7 | | | | 1 | | | | | | | | | | | - | 5.1 |
| Project Management Admin | | 9.5 | | 4.7 | | 3.0 | | . i.3 | | C | | | | | | | | | | 19.7 |
| Fielding | | 10.0 | | 4.0. | | , , | | 0, 4 0, 0 | | , 0 | | | | | | | | | | 3.70 |
| Depot Maint Premodification | | | | | | , | | , , | | | | | | | | | | , | | |
| Installation of Hardware FY 1996 & PriorKits (877) FY 1997 Eqpt Kits (37) FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2002 Eqpt Kits FY 2002 Eqpt Kits FY 2003 Eqpt Kits | 716 | 53.2 | 161 | 9.8 8.8 | 98 | ć. | | | * 141/4 | | | | | | | | | | 877 37 36 | 62.4 4.2 1.2 |
| TC Equip-Kits | 140 | | | | 90 | | | | \dagger | | | | | | | | | | 050 | 66.0 |
| l otal Installment | 91/ | - 1 | 282 | | | | | ; | 1 | | 1 | 2 2 | | • | | | | | 900 | 1205.2 |
| Total Procurement Cost | | 1207.4 | | 95.4 | | 600 | | 6.11 | | 9.1 | | 2.0 | | 9 | | | | | | 1393.3 |

| | | l | l | | l | <u>S</u> | VIDUA | INDIVIDUAL MODIFICATION | IFICAT | NO | | | l | l | l | | Date | | Feb | February 1998 | | Γ |
|--|---|--------------------|---------------------|--------|-------------------|-------------------|----------|--|-------------------|-----------------|---------------------|---------------------|------------------|---------|-------------------|---------|---------------------------------|-----------|----------|---------------|--------|--------|
| MODIFICATION TITLE: | Chlorofluorocarbon (CFC) Elimination 1-96-05-1003 | uoroca | arbor | CF | 3) Eli | minat | ion 1- | 30-96 | -1000 | 9 | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: M109A6 Paladin Howitzer | S AFFECTEI | D: M109 | 3A6 P | ladin | Howitz | a | | | | | | | | | | | 1 | | | | | |
| DESCRIPTION / JUSTIFICATION: | FICATION: | | | | | | | | | | | | | | | | | | | | | |
| References: DOD Directive 6050.0; DA Policy Letter 200.90-1; AMC Regulation 70-68; Montreal Protocol of 1986. The previous references mandate the replacement of R-12 Freon, used in the current M109A6 Paladin's Microclimatic Conditioning System (MCS), with a non-chlorofluorocarbon (CFC) substitute. | ective 6050. es mandate | 0; DA F the rep | olicy lacem | ent of | 200.90 R-12 F | -1; AM reon, u | C Regu | ulation the cur | 70-68; rrent M | Montre 109A6 | al Prote Paladir | ocol of o's Mica | 1986. roclima | fic Cor | ditionin | g Syste | m (MCS |), with a | non-chlc | orofluor | ocarbo | Б. |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Request For Proposal - accomplished 30 FY 97: Vandor Selected 10 FY 98: Joint Government/Conractor Test and Evaluation -planned 30 FY 98: IPB Production | US / MAJOF | S DEVE | LOPN FY 97 | ENT A | AILEST or Sele | MILESTONES: | C | ioi. | Gove | a de maria | /Conra | ctor Te | stand | Evalua | fion -p | S penue | 74 | Pre Pre | diction | | | |
| Decision/Contract Modification - planned 4Q FY 98; and TDP Available - planned 4Q FY 98. | lification - pla | anned 4 | Q FY | 98; an | d TDP | Availa | ld - eld | anned | 40 FY | 98. | | | | | | | 5 - - | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Installation Schedule: | | ١ | | | f | l | ì | 77.4000 | | ļ | ١ | 0007 | | ł | | 0000 | | F | ľ | 7000 | | |
| | Totals | - | 2 | 3 | 4 | - | 2 | 3 | | 4 | - | 2 | 8 | 4 | - | 2 2 | 8 | 4 | - | 2 2 | 8 | 4 |
| Inputs Outputs | | | | | | | | | | 2 | 20 10 6 6 | 105 1 66 | 120 | 120 | 108 | | | | | | | |
| | Ĺ | FY 2002 | | - | | FY 2003 | 803 | | | Œ | FY 2004 | | - | | FY 2005 | ις. | - | | 70 | | Į | Totals |
| | 1 | 2 | 3 | 4 | - | 2 | 3 | 4 | | _ | 2 | 3 | 4 | - | 2 | 3 | 4 | Complete | te | | | |
| Inputs Outputs | | | | _ | | | | | | | | | | | | | | | | | | |
| METHOD OF IMPLEMENTATION: Contract Dates: | ENTATION: | MWO Te FY 1997 | MWO Team FY 1997 | E | • | DMIN | STRA | ADMINISTRATIVE LEADTIME: FY 1998 JI | EADTII | ME: Jul 98 | o 8 6 | Months | ıths | # E G | PRODUC FY 1999 | TION L | PRODUCTION LEADTIME: FY 1999 | ii 2 | Months | ths | | |
| Delivery Date. | | | 188 | | ١ | | | Ď | 00 | 280 | g | ١ | l | | 222 | l | | | | | ١ | 7 |

Exhibit P-3a Individual Modification

| MODIFICATION TITLE (Cont): FINANCIAL PLAN: (\$ in Millions) FY 1996 And Prior And Pri | | | | | | | Date | repine | replualy 1998 | |
|---|---|---------------|----------|----------|-----|---|------|---------|---------------|------|
| FY 1996 and Prior Qty \$ Qty \$ | Chlorofluorocarbon (CFC) Elimination 1-96-05-1003 | mination 1-96 | -05-1003 | | | | | | | |
| dware Ory \$ Qry \$ Ory \$ Ory \$ Arits - Kits - Kits | | | | | | | | | | |
| dware or Egpt - Kits - Kits - Kits - Kits | FY 199 | 139 | /200 | 200 | H | H | 20 | 2 | TOTAL | _ 6 |
| Kit Quantity Hardware Testing Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits | P D | A A | Å | <u> </u> | e e | 9 | ê | e Air | Ŝ | A |
| Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1999 Eqpt Kits | 365 4.7 | | | | | | | 549 7.9 | 914 | 12.6 |
| FY 2000 Eqpt kits FY 2001 Eqpt kits FY 2002 Eqpt kits FY 2003 Eqpt kits | 0.1 | 257 | 108 | | | | | | | 0. |
| TC Equip-Kits | - | 720 | act | | | | | 549 1.6 | 549 | 1.6 |
| Total Procurement Cost | 6.3 | | 2 | | | | | | | 15.8 |

| | | | | | | | | Date: | | | | |
|---|--|-----------------|-------------------------|------------------------|---------------------------------|---|----------------|-------------|-----------------------------|---------------|-------------|------------|
| | | Exhibit P-4 | Exhibit P-40, Budget It | em Justification Sheet | ation Sheet | | | | Ĕ | February 1998 | 8 | |
| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 Item Nomenclature: | :0: | | | | | |
| PROCUREMENT | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | CMBT VEHS/1/Tra | cked Combat Vehic | les | | | | FAASV PII | FAASV PIP TO FLEET (GA8010) | (GA8010) | | |
| Program Elements for Code B Items: | iS: | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | | | | 4 | | | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 56.7 | 6.6 | 6.4 | 23.5 | 1.9 | 3.2 | 0.1 | 0.0 | 18.7 | 0.0 | 4.6 | 124.9 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 26.7 | 6.6 | 6.4 | 23.5 | 1.9 | 3.2 | 0.1 | 0.0 | 18.7 | 0.0 | 4.6 | 124.9 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 56.7 | 9.9 | 6.4 | 23.5 | 1.9 | 3.2 | 0.1 | 0.0 | 18.7 | 0.0 | 4.6 | 124.9 |
| Fiyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| DESCRIPTION: Eurole the programment of approved mod | nde the proof | re to tomon | bom beyond | ifications to | he Maga | tinestine to the M002 and M00241 Eight Adillan, Amminition Survey Vehicle (See detailed | d Artillany Ar | ominition S | nnort Vehicle | See detail | امط | |

DESCRIPTION: Funds the procurement of approved modifications to the M992 and M992A1 Field Artillery Ammunition Support Vehicle (See detailed Description/Justification on the following exhibit P-3A).

| Exhibit P- | Exhibit P-40M Budget Item Justification Sheet | m Justifica | ition Sheet | | | Date | | February 1998 | 86 | |
|--|---|-------------|--------------------------------|-----------------------|---------|---------|-----------------------------|---------------|-----|-------|
| Appropriation / Budget Activity/Serial No. (No P3a Sel) PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | Tracked Combat Vehicle | | | P-1 Item Nomenclature | 9 | FAASV F | FAASV PIP TO FLEET (GA8010) | T (GA8010) | | |
| Program Elements for Code B Items | | Code | Other Related Program Elements | ım Elements | | | | | | |
| Description | Fiscal Years | | | | | | | | | |
| OSIP NO. Classification | FY1996 & Prior | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | TC | Total |
| FAASV Materiel Change (A2 Conversion) 1-93-05-4457 Unclassified | 72.5 | 22.5 | 0.1 | 2.9 | 0.1 | 0.0 | 18.7 | 7 0.0 | 0.0 | 116.8 |
| FAASV Halon Replacement | | | | | | | | | | |
| 1-94-05-4477 Unclassified | 0.4 | 1.0 | 1.8 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | 8.1 |
| Totals | 72.9 | 23.5 | 1.9 | 3.2 | 0.1 | 0.0 | 0 18.7 | 7 0.0 | 4.6 | 124.9 |
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| | | | S | INDIVIDUAL MODIFICATION | MODIF | CATION | | | | | | | Date | | February 1998 | 89 |
|---|-------------------------------|------------------------|------------------------|----------------------------------|--------------------------|-----------------------|----------|---------------------|----------------------|----------------------|---------------------|-----------------------|-------------------------|------------------------|--------------------------|----------------|
| MODIFICATION TITLE: FAASV I | FAASV Materiel Cha | ange | (A2 Co | nge (A2 Conversion) 1-93-05-4457 | n) 1-9 | 3-05-4 | 457 | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: | FAASV M992A2 | M992A | 8 | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | | | | | | | | | | | | | | | | |
| The FAASV materiel change encompasses the previously approved FAASV HELP (Howitzer Extended Life Program) and Survivability Materiel Changes. The materiel change incorporates M109 Family of Vehicles improvements include the Low Heat Rejection/Cold Start | passes the passes inprovement | reviously ants into | approve the FAA | d FAAS\ | HELP (| Howitzer ntain a c | r Extend | ded Life chassis | Prograr s. These | n) and S e improv | survivab rements | llity Mate include | iriel Chan the Low F | iges. The leat Reje | materiel chartion/Cold & | nange Start |
| Engine, improved XTG 411-4 Transmission, Reliability, and Maintainability (RAM) improvements to the cooling, electrical, and suspension systems, relocated heater and modifications to provide intercongrability with the M104A6 Paladin Howitzer. The enhancements provided by the material channe will | mission, Reli | ability, an | nd Mainta | inability intercer | (RAM) in | mbrovem | ents to | the cool | ing, elec Howitze | strical, a | dsns pu | ension s | ystems, r | elocated v the mat | heater and | iiw d |
| permit the FAASV crew to operate in the same environment as the M109A6 Paladin. This means the operation and maintenance features will be common (i.e. spares, repair | n the same e | nvironme | ent as the | M109A6 | Paladin | . This m | neans th | е орега | ition and | mainte | nance fe | atures | vill be cor | nmon (I.e | . spares, re | pair |
| parts, special tools, and training) and the FAASY cold starting and HAM realines will be comparable. The modifications to the real door conveyor and propertient acks will improve M109A6 supportability. Funding against Depot Maintenance Pre-Modification pays the Inspect and Repair Only As Necessary (IROAN) upgrade effort. FY99 | d the FAASV nding agains | cord sta | riing and Aaintenai | mam rea ice Pre-∧ | tures will fodificati | on pays | the Ins | pect and | Repair Repair | Only As | Neces | sary (IR | DAN) upg | rade effor | rit racks wi | _ |
| represents the first year these funds were transferred from the Operation and Maintenance, Army(OMA) to the procurement appropriation as directed by Program Budget Decision (PBD) 21. | s were transfe | rred fror | n the Op | eration ar | d Mainte | enance, | Army(C | MA) to | the pro | curemer | ıt appro | oriation | as directe | d by Prog | ıram Budge | |
| | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | DEVELOPME | | MILESTONES | iii | | | | | | | | | | | | |
| Preliminary Design Review: | 1QFY91 | Y91 | | | | | | | | | | | | | | |
| Critical Design Review: | 4QFY91 | Y91 | | | | | | | | | | | | | | |
| Contractor Test and Evaluation: | 2QFY93 | Y93 | | | | | | | | | | | | | | |
| TOP Available: | 3QFY93 | Y93 | | | | | | | | | | | | | | |
| M992A2 First Delivery: | 3QFY94 3QFY94 | 793 794 | | | | | | | | | | | | | | |
| Magzaz First Onit Equipped: | 1QFY95 | Y95 | | | | | | | | | | | | | | |
| Installation Schedule: | | - | | | | | | | | | | | | | | |
| Pr Yr | FY 1997 | | | FY 1998 | 860 | | | FY 1999 | 6 | | | FY 2000 | | | FY 2001 | |
| Totals | 2 | | | | 3 | 4 | - (| 2 | 3 | 4 | - | 2 | 3 4 | - | 2 | 3 4 |
| Inputs 355 33 | E 6 | 06 60 | 25 52 | 8 8 9 | 76 | 9 6 | 3 c | 26 | ~ | | | | | | | |
| | 3 | | | | 2 | | | | | | | | | | | |
| FY | FY 2002 | | FΥ | FY 2003 | _ | | FY 2004 | 4 | | | FY 2005 | | | 10 | | Totals |
| 1 2 | 3 | 4 | 1 2 | 3 | 4 | 1 | 2 | 3 | 4 | - | 2 | 3 | 4 Q | Complete | | |
| Inputs | | | - 1 | | | | | | | | | | | | | 789 |
| METHOD OF IMPLEMENTATION: | Field Retrofit | <u></u> | ADMIR | ADMINISTRATIVE LEADTIME: | VE LEA | DTIME: | | 12 Mc | Months | PR | ODUCT | ION LE/ | PRODUCTION LEADTIME: | 7 | Months | |
| Contract Dates: | FY 1997 | Octol | October 1997 | | FY 1998 EV 1998 | A N | ⋖ ≤ | | | 2 | FY 1999 FY 1999 | A N | | | | |
| Delivery Date. | 1221 | ž | April 1990 | | 1990 | 141 | ا | | | - | 2000 | 14/1 | | | | |

| February 1998 | | | TC TOTAL | 789 | | 789 25.3 | 116.8 |
|-------------------------|-------------------------------------|----------------------------------|----------|---|--|----------|-------|
| Date | | | FY 2003 | • | | | |
| | | | FY 2002 | | | | 107 |
| | | | FY 2001 | | | | |
| NO | Change (A2 Conversion) 1-93-05-4457 | | FY 2000 | | | • | |
| INDIVIDUAL MODIFICATION | Conversion) | | FY 1999 | | | | 00 |
| NDIVIDU/ | | | FY 1998 | | | | |
| | FAASV Materiel | | FY 1997 | | 202 8.4 125 1.5 | 327 9.9 | |
| | FAA | FY 1996 | + | 42.4 4.0.1 0.1 4.0 3.4 | 462 15.4 | 462 15.4 | |
| | MODIFICATION TITLE (Cont): | FINANCIAL PLAN: (\$ in Millions) | ļ | RDT&E PROCUREMENT Kit Quantity Installation Kits Engineering Change Orders Project Management Admin Testing Vehicular Intercom System Fielding Depot Maint PreModification Auxiliary Power Unit | Installation of Hardware FY 1996 & Prior Eqpt(664) Kits FY 1997 Eqpt (125) Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt kits FY 2001 Eqpt kits FY 2003 Eqpt kits FY 2003 Eqpt kits FY 2003 Eqpt kits | ent | 1 |

| | | | NDI/ | IDUAL I | INDIVIDUAL MODIFICATION | (TION | | | | | | 1 | Date | | February 1998 | 866 | |
|--|--------------------------------------|-----------------------|---------------------|-----------|--------------------------|---------|---------|---------|--------|---------|---------|----------------------|----------|----------|-------------------------|---------|------------|
| MODIFICATION TITLE: FAASV | FAASV Halon Replacement 1-94-05-4477 | cemer | ıt 1-94- | 05-447 | 7 | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: | EAASV M99 | 1992A2 | | | | | | | | | | | ! | | | | |
| DESCRIPTION / JUSTIFICATION: | | | | | | | | | | | | | | | | | |
| References: DOD Directive 6050.0; DA Policy Letter 200.0.1; AMC Regulation 70-68; Montreal Protocol of 1986 and Presidential Directive. These references mandate the replacement of Halon charged fire suppression systems to prevent ozone depletion. A common replacement | 6050.0; DA | Policy pent of | Letter 2 | 200.0.1 | ; AMC F | Regula | tion 70 | -68; M | ontrea | l Proto | col of | 1986 a | and Pres | sidenti | Presidential Directive. | stive. | + |
| agent engine compartment fire extinguishing system is required for 885 FAASV systems. FY97-99 funds have been appropriated to begin step | ire extinguis | hing sy | stem is | require | ed for 86 | S FAA | SV sy | stems. | FY97 | -99 fur | ids ha | ve bee | n appro | priate | d to be | gin ste | Q. |
| one of the conversion by replacing the fire suppression distribution system in the FAASV engine compartment on 688 vehicles with one suitable to both Halon and the selected afternate agent. | placing the f | ire supp elternate | oression e adent | n distrik | oution sy | /stem i | n the | -AASV | engin | e com | artme | nt on (| 388 veh | icles v | /ith one | • | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | DEVELOPME | | MILESTONES | | | | | | | | | | | | | | T |
| | | | PLANNED: | ä | | ACT | ACTUAL: | | | | | | | | | | |
| Preliminary Design Review: | | | 2QFY98 | | | 1QFY98 | 498 | | | | | | | | | | |
| Critical Design Review: | : | • | 2QFY98 | | | | | | | | | | | | | | |
| Joint Government Contractor Test and Evaluation: IPB Production Decision: | and Evaluation: | | 2QFY98 | | | 1QFY98 | 498 | | | | | | | | | | |
| TDP Available: | | | 3QFY98 3QFY98 | | | | | | | | | | | | | | |
| Installation Cohodula: | | | | | | | | | | | | | | | | | |
| Pr Yr | FY 1997 | | | FY 1998 | 86 | - | Ĺ | FY 1999 | | | FY | FY 2000 | | | FY 2001 | 5 | |
| Totals | | 3 4 | - | 2 | 3 | 4 | _ | | 3 4 | 1 | 2 | 3 | 4 | - | 2 | 3 | 4 |
| Inputs | | | | | | 7 | | 2 | cu | - | | | | | | | |
| Outputs | | | | | _ | | 2/6 | 20 | 26 20 | 20 | 162 | 162 | 161 | | | - | T |
| ĬĒ. | FY 2002 | | FY 2003 | 903 | | ir. | FY 2004 | | | F | FY 2005 | | | 10 | | Tot | Totals |
| - | 2 3 | 4 | 2 | 3 | 4 | - | 2 | 3 | 4 | 2 | 3 | 4 | Com | Complete | | | |
| Inputs Outputs | | | | | | | - | | | | | | | - | | | 885 688 |
| METHOD OF IMPLEMENTATION: | Unknown | | ADMINI | STRATIV | ADMINISTRATIVE LEADTIME: | IME: | 6 | Months | J.S | PROD | UCTION | PRODUCTION LEADTIME: | IIME: | 0 9 | Months | | |
| Contract Dates: | FY 1997 | July 98 | | ÍL. | FY 1998 | July 98 | 86 | | | FY 1999 | 66 | N/A | | | | | |
| Delivery Date: | FY 1997 | Dec 88 | | ĹL. | FY 1998 | Dec 98 | 86 | | | FY 1999 | 66 | N/A | | | | | |

| | | | | | Z | DIVIDUA | L MODI | INDIVIDUAL MODIFICATION | z | | | | | | | Date | | Febru | February 1998 | |
|--|---------|----------|-------|---------|--------|--------------------------------------|--------|-------------------------|--------|---|---------|----|-----|---------|-----|---------|----------|-------|---------------|---------|
| MODIFICATION TITLE (Cont): | | FA | ASV F | talon F | leplac | FAASV Halon Replacement 1-94-05-4477 | -94-05 | 5-4477 | | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | | | | | | | | | | | | | | | | | | | | |
| | FY 1996 | 986 | 2 | EV 4007 | 2 | EV 4000 | 2 | 1000 | 5000 A | 8 | EV 2001 | 5 | Ž | EV 2002 | à | EV 2003 | | J. | TOTAL | Ī |
| | Oty | <u> </u> | oţ. | \$ | ē | \$ | Q V | \$ | Qty _ | 8 | Oty | \$ | Qty | \$ | Oty | 8 | Qty | \$ | aty | 8 |
| RDT&E PROCUREMENT Quantity Kit A Hardware for Kit A Engineering Support | | | 500 | 0.3 | | 0.7 | 197 | 0.3 | | | | | | | | | | | 885 | 1.3 |
| Test Other Quantity Kit B | | 4.0 | | 0.4 | | | | | | | | | | | | | i. | | | 0.8 |
| Hardware for Kit B | | | | | | | | • | | | | | | | | | 88 88 | 4. | 88 | ည် 4 |
| | | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt (200) Kits FY 1998 Eqpt (488) Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits | | | | | 700 | 0.2 | | | | | | | | | | | | | 200 | 0.2 |
| FY 2002 Eqpt kits FY 2003 Eqpt kits TC Equip-Kits | | | | | | | | | | | | | | | | | 1082 | 1.2 | 1082 | 1.2 |
| Total installment | | | | | 688 | 0.7 | | | | | | | | | | | 1082 | 1.2 | 1770 | 1.9 |
| Total Procurement Cost | | 0.4 | | 1.0 | | 1.8 | | 0.3 | | | | | | | | | | 4.6 | | 8.1 |

| | | Exhibit P-4 | Exhibit P-40. Budget Item. Institication Sheet | em Justific | ation Sheet | | | Date: | | Fobration 4000 | | |
|---|--|---------------------|--|-------------|---------------------------------|---|-------------|---------------|--|------------------|-------------|------------|
| | | | in a second factor | | | | | | | reginally 1990 | | |
| Appropriation / Budget Activity/Serial No: | fat No: | | | | | P-1 Item Nomenclature: | :0, | | | | | |
| PROCUREMEN | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | CMBT VEHS / 1 / Tre | icked Combat Vehicl | 98 | | | | IMPROVED RECO | IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570) | 18 MOD) (GA0570) | | |
| Program Elements for Code B Items: | ıs: | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | | | | ∢ | | | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | 13 | 15 | 24 | 24 | 10 | 15 | 25 | 25 | 34 | 45 | 399 | ,629 |
| Gross Cost | 31.2 | 33.9 | 54.4 | 55.5 | 31.9 | 38.2 | 57.4 | 58.2 | 8.77 | 101.8 | 1029.3 | 1569.4 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 31.2 | 33.9 | 54.4 | 55.5 | 31.9 | 38.2 | 57.4 | 58.2 | 8.77 | 101.8 | 1029.3 | 1569.4 |
| Initial Spares | | 2.9 | 1.6 | 2.0 | 0.8 | 2.9 | 3.2 | 3.1 | 4.2 | 4.2 | 63.2 | 88.0 |
| Total Proc Cost | 31.2 | 36.8 | 56.0 | 57.5 | 32.7 | 41.1 | 60.5 | 61.3 | 82.0 | 105.9 | 1092.4 | 1657.5 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | 2.4 | 2.3 | 2.3 | 2.3 | 3.2 | 2.5 | 2.3 | 2.3 | 2.3 | 2.3 | 2.6 | 2.5 |
| A Language and all Control of About 1 and Train Control | THE OWNER OF THE | יין וויין | bearing a | | Jacob Land | المستميد ومراسيان ومراه مسموا مسموا المساوات المساوات المساوات المساوات المساورة المرامية | - Liele com | and strike on | | the second | | |

evacuation, and limited repair of the main battle tank. The FY98 procurement is the first year of full rate production following a Milestone III decision in August 1997. The DESCRIPTION: The M88A2 HERCULES is an armored, full-tracked, diesel-powered, recovery vehicle configured with an A-frame boom, three winches, and a spade. fragments and anti-personnel mines. The vehicle mounts a caliber .50 machine gun for self-protection. The M88A2 HERCULES is capable of performing recovery, The boom has a 35 ton lift capacity and the main winch has a constant pull capacity of 70 tons. The hull is armored for protection against small arms fire, artillery procurement objective for the HERCULES is 629 vehicles. JUSTIFICATION: The present 56 ton M88A1 is deficient in its ability to safely perform battlefield recovery of vehicles weighing 60 tons or more. The M88A1 cannot safely recover the Army's current main battle tank, the Abrams Tank, without using a second vehicle as a brake vehicle. The present lack of recovery capability has necessitated recovery vehicle chassis, upgrade the propulsion system to 1050 horsepower, add armor protection, improve winching to 70 tons, improve hoisting to 35 tons, and add a include the Grizzly, Wolverine, and Crusader. The M88A2 HERCULES will provide the Army this capability. The M88A2 program strategy is to modify the existing M88 the development of a heavy recovery vehicle to provide a towing capability for vehicles weighing up to 70 tons. Future Army vehicles exceeding the M88A1's capability hydraulic assisted braking system.

Item No. 15 Page 2 of 8 115

| Exhit | Exhibit P-5a, Budget Procuremen | t History a | curement History and Planning | | | | | Date: | February 1998 | 86 |
|---|---------------------------------|---------------------|-------------------------------|--------------------------|-----------------------------|---------------|--|----------------|---------------|-------------------|
| Appropriation / Budget Activity/Serial No: | | Weapon System Type: | эт Туре: | | P-1 Line Item Nomenclature: | domenclature: | | | | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | mbat | | | | IMP | ROVED REC | IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570) | M88 MOD | (GA0570 | |
| WBS Cost Elements: | Contractor and Location | Contract | Location of PCO | Award Date Date of First | Date of First | ΔΤΥ | Unit Cost | Specs Avail | Date Revsn | RFP Issue Date |
| Fiscal Years | | and Type | | | Delivery | Each | \$000 | Now? | Avail | |
| 1. Vehicle Manufacturing - Contractor | | | | | | | | | Ī | |
| FY 96 | UDLP (1) | SS-FFP | TACOM | Apr-96 | Jul-97 | 24 | 1910 | YES | | Nov-95 |
| FY 97 | UDLP | SS-FFP | TACOM | Apr-97 | 36-Inc | 24 | 1851 | YES | | Nov-96 |
| FY 98 | UDLP | SS-FFP | TACOM | Apr-98 | 3nl-99 | 10 | 1915 | YES | | Nov-97 |
| FY 99 | UDLP | SS-FFP | TACOM | Apr-99 | Nov-00 | 15 | 1893 | YES | | Nov-98 |
| Vehicle Manufacturing - GFF | | | | | | | | | | |
| FY 96 | Various | Rean/PO | Various | | | 24 | VAR | YES | | |
| FY 97 | Various | Regn/PO Various | Various | | | 24 | VAR | YES | | |
| FY 98 | Various | Reqn/PO Various | Various | | | 10 | VAR | | | |
| FY 99 | Various | Reqn/PO Various | Various | | | 15 | VAR | | | |
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| REMARKS: (1) UDI P - United Defense I imited Partnership | d Partnership | | | | | | | | | |
| | diagonia. | | | | | | | | | |

| EV 98 / 99 BUDGET PRODUCTION SCHEDULE | JCTIO | N SC | FDUL | 841 | | - | -1 IB | P-1 Item Nomenclature: IMPROVED | MPRO | THENCIALUTE: IMPROVED RECOVERY VEHICLE (M88 MOD) (GA0570) | ECOV | 'ERY V | FHICL | E (MBI | 3 MOL | (GA(| . (029) | | | | Cale: | | | _ | February 1998 | iry 199 | ® | | |
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| COST ELEMENTS | т с | F | m a > | Each 1 | | AS OF 1 OCT | 0 O F | Z 0 > | ¬ ∢ Z | ппю | 2 < C | < 0 E | ≥ ∢ ≻ | 7 D Z | ר ח | ∧⊃@ ⊗⊞σ | 00- | z 0 > | ОПО | ¬ ∢ Z | и ш ш | ≥ < Œ | < 0 € | ≥ <≻ | っっ z | רכי | < ⊃ ७ | ωшα | ⊢ w œ |
| 1. Vehicle Manufacturing - Contr | | | | | | | | \vdash | | Ц | | | | | | Н | Н | | | | | | | | | | | Н | |
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Item No. 15 Page 4 of 8 117

| HINGHOS NOITOIIGOBE THEORIS 69 / 86 VH | ICTIO | N SCH | FDIII F | | | P-4 | P-1 Item Nomenclature: | menci | ature: | menclature: IMPROVED RECOVERY VEHIC! E (M88 MOD) (GA0570) | FRYV | FHICH | E (M8 | MOD | (GAD | (025 | | | _ | Date: | | | Febr | February 1998 | 86 | | |
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| Vehicle Manufacturing - Contrac | Н | | H | \parallel | Н | П | | Н | Ц | | П | Н | Н | Н | Н | Ц | | | H | H | Н | Н | Ц | | | H | П |
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| | - | Exhibit P-4 | 0, Budget It | Exhibit P-40, Budget Item Justification Sheet | ation Sheet | | | Date: | | February 1998 | | |
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| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | 2 | 9 | 7 | 6 | 13 | 18 | 22 | 23 | 365 | 465 |
| Gross Cost | 0.0 | 0.0 | 14.6 | 51.4 | 41.3 | 50.4 | 68.6 | 86.5 | 106.5 | 116.5 | 2112.0 | 2647.8 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 0.0 | 0.0 | 14.6 | 51.4 | 41.3 | 50.4 | 68.6 | 86.5 | 106.5 | 116.5 | 2112.0 | 2647.8 |
| Initial Spares | | | | | 0.9 | 6.0 | 1.4 | 1.4 | 1.8 | 2.1 | 36.2 | 44.6 |
| Total Proc Cost | 0.0 | 0.0 | 14.6 | 51.4 | 42.2 | 51.3 | 70.0 | 87.9 | 108.3 | 118.6 | 2148.2 | 2692.4 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | 7.3 | 8.6 | 5.9 | 5.6 | 5.3 | 4.8 | 4.8 | 5.1 | 5.8 | 5.7 |
| T NOTEGICOOLG | 117 | | | , | 1,110 (1) 1 (1) | - | . 101 | | 1 - 134 | 0.04 444 | | |

operated by a crew of two soldiers and will be employed by Combat Engineer units in both offensive and defensive combined arms operations. Its mission is to provide Package (SEP) Abrams Tank chassis. The bridge is capable of spanning gaps up to 24 meters on both prepared and unprepared abutments and can be placed on a bearing surface over its entire length. It is launched under armor within five minutes and can be retrieved, from either end, in less than ten minutes. The Wolverine is DESCRIPTION: The Wolverine (Heavy Assault Bridge) is a 26 meter (79 feet) Military Load Class 70 bridge transported on a modified M1A2 System Enhancement gap crossing capability for heavy maneuver forces. It is planned to support the Abrams Tank System and the Bradley Fighting Vehicle and is compatible with these systems in mobility and survivability.

increased load capacity to support Military Load Class 70 vehicles and improved mobility, survivability, and logistics compatibility. The Wolverine enhances the Combined increased load carrying capability. The Wolverine will replace the Armored Vehicle Launched Bridge (AVLB) providing increased worldwide gap crossing capabilities, JUSTIFICATION: During Operation Desert Storm, it became evident that the current Army bridging system was deficient in gap spanning capability and required Arms Team's ability to move where it wants, multiplying its combat capabilities. First Unit Equipped will be in FY00 at a quantity of 12 vehicles.

| Exhibit P-5, Weapon WTCV Cost Analysis | | Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VICES 14 1 Tracked Combes Vehicles | get Activity/ | Serial No: & TRKD CMBT | | P-1 Line Item HEAVY ASS | P-1 Line Item Nomenclature: HEAVY ASSAULT BRIDGE (F | P-1 Line Item Nomenclature: HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) | | Weapon System Type: | | Date: Febri | February 1998 |
|---|----|--|---------------|---------------------------|-----------|----------------------------|--|---|-------|---------------------|-----------|----------------|---------------|
| WTCV | Q | VERBY 11 | FY 96 | Dat Velicies | | FY 97 | (623250) | | FY 98 | | | FY 99 | |
| Cost Elements | CO | TotalCost | ģ | UnitCost | TotalCost | Q | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Off Off | UnitCost |
| | Ц | ш | Each | \$000 | \$000 | Each | \$000 | \$000 | Each | \$000 | \$000 | Each | \$000 |
| 1. Vehicle Manufacturing - Contractor | В | 10048 | N | 5024 | 32618 | 9 | 5436 | 27376 | 7 | 3911 | 35261 | 6 | 3918 |
| 2. Vehicle Manufacturing - ANAD | | J | | | 1212 | 9 | 202 | 1600 | 7 | 229 | 2100 | 6 | 233 |
| 3. Vehicle Manufacturing - GFE | | 1861 | - | | | | | 2260 | 7 | 323 | 2940 | 6 | 327 |
| 4. Contract Engineering | | 1330 | | | 15513 | | | 2000 | · | | 0669 | | |
| 5. Engineering Change Orders | | | | | | | | 730 | | | 950 | | |
| 6. Project Mgmt Admin - Core | | 482 | | | 844 | | | 730 | | | 750 | | |
| 7. Project Mgmt Admin - OGA | | 890 | | | 1204 | | | 1260 | | | 1160 | | |
| 8. New Equipment Training | | | | | | | | 340 | | | 230 | | |
| 9. Total Package Fielding | | | | • | | | | | | | | | |
| 10. Transportation | | | | | 10 | | | 15 | | | 20 | | |
| | - | | | | | | | | | | | | |
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| | | | | | | | | | | | | - | |
| TOTAL | | 14611 | | | 51401 | | | 41311 | | | 50401 | | |
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| | | | | | | | | Date: | | Γ |
|---|---|---------------------|-----------------------------|--------------------------|-----------------------------|---------------|-----------------|-----------|---------------|------------|
| Exhibit I | Exhibit P-5a, Budget Procurement History and Planning | listory an | nd Planning | | | | | Fel | February 1998 | 8 |
| Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & THKD CMBT VEHS / 1 / Tracked Combat | | Weapon System Type: | n Type: | | P-1 Line Item Nomenclature: | domenclature: | m Nomenclature: | VG (MOD) | (0.79950) | ì |
| Vehicles | | Contract | | | | - | (2011) | Space | Date B | RED legilo |
| WBS Cost Elements: | Contractor and Location | Method | Location of PCO | Award Date Date of First | Date of First | ΔŢ | Unit Cost | Avail | Revsn | Date |
| Fiscal Years | | and Type | | | Delivery | Each | \$000 | - | Avail | |
| 1. Vehicle Manufacturing - Contractor | General Dynamics Land Sys | | | | | | | | - | |
| FY 96 | Lima, Ohio | SS-CPFF TACOM | TACOM | Aug-96 | | 2 | 5024 | YES | | |
| FY 97 | | SS-CPFF TACOM | TACOM | Dec-96 | | 4 | *6199 | YES | | |
| FY 97 | | $\overline{}$ | TACOM | Jan-98 | | N | *3911 | YES | _ | Aug-97 |
| | | | | | | | | | | |
| FY98 | | _ | TACOM | Jan-98 | | 7 | 3911 | YES | _ | Aug-97 |
| FY99 | | MZ(1) SS-FFP | TACOM | Nov-98 | | 6 | 3918 | YES | | Jul-98 |
| | | M2(2) | | | | | | | | |
| | | | | | | | | | | |
| Venicle Manufacturing - AINAD Vo. | Anniston Army Depot | | | | | 4* | COC | | | |
| E < 38 | | | | | | 7 0 | 202 | | - | |
| FY 99 | | | | | | 6 | 233 | | | |
| | | | | | | | | | | |
| 3. Vehicle Manufacturing - GFE | Government Furnished Equipment | | | | | | | | | |
| FY 96 | | | | | | | | | | |
| FY 97 | | | | | | | | | | |
| FY 98 | | | | | | _ | 323 | | | |
| FY 99 | | | | | | 6 | 327 | | | |
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| REMARKS: *The first four vahicles of the EV97 funds were nurchased as an ontion in Dec 96 on the Aug 96 Pilot Vahicle contract. The unit price is much greater due to the nonzeruning costs to be | ds were nurchased as an ontion in De | ac 96 on the | Aug 96 Pilot Vehicle contra | The unit | nrice is m | ich areater | due to the no | procurrin | ataco n | od ot |

*The first four vehicles of the FY97 funds were purchased as an option in Dec 96 on the Aug 96 Pilot Vehicle contract. The unit price is much greater due to the nonrecurring costs to be incurred in preparing for production such as tooling costs. The last 2 vehicles will be included in the Jan 98 MYP award at the same unit price as the FY98 buy.
**PM Abrams provided PM Wolverine with two refurbished chassis for the first two LRIP vehicles.

of 8

Exhibit P-5A, Procurement History and Planning

| Note Part | FY 98 / 99 BUDGET PRODUCTION SCHEDULE | UCTION | SCH | EDU | ш | | | ī | Hem | P-1 Item Nomenciature: HEAVY ASS | EAVY # | Ire: ASSAU | nenciature: HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250) | DGE (| (HAB) | SYS (I | (QO) | GZ32 | (0 | | | <u> </u> | Date: | | | Fet | February 1998 | 1998 | | |
|--|---|---------------|-------------------|---------|--------|--------|-------|----------|----------|-------------------------------------|--------|---------------|--|----------|-----------|----------|----------|--------|-------|-------|-----|-----------|-------------|----------|----------|----------|---------------|----------|--------------|-----|
| Fig. 10 Fig. | | | | | ဂ္ဂ | ACCEP. | BAL | - | | | | FISC | al Ye | ar 9 | 6 | | | | L | | | Г | FISCE | I Ve | ar 9 | L | | | | 7 |
| COST ELEMENTS F | | ≥ | | တ | | PRIOR | DUE | | | П | | | | ပြီ | lend | ar | ear 9 | 9 | | | П | | | Cale | ndai | Уеа | r 97 | | | < |
| Vehicle Manufacturing - Contract 1 FY 99 A 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | COST ELEMENTS | | > | m a > | | 1 OCT | AS 0, | | | о ш O | > ∢ z | | | 4 d u | 7 D Z | רכי | ۷⊃७ | லநச | 0 U F | z 0 > | DШO | | | | | | 704 | ∢⊃ฃ | SПГ | ⊢wœ |
| 1 FY 96 | 1. Vehicle Manufacturing - Contrac | | r | | | | | | | | | | - | _ | H | _ | | | | П | | | Н | | | | | | | |
| TOTAL 1 | | \vdash | 96 | A | 2 | 0 | 2 | Н | Ц | | | H | H | Н | Н | Н | ٧ | | | | | | | | | | | | | 2 |
| 1 FY 90 | | | 26 | A | 9 | 0 | 9 | | | | | | | | | Н | | | | | ۷ | | | - | | \dashv | Ц | | | စ |
| FY 00 | | | 86 | A | 7 | 0 | 7 | | | | | | | | Н | | | | | | | | \vdash | | | | | Ц | | 7 |
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| TOTAL WARE LOCATION WIN. 1-6-5 WAY WINDERS WINDS STREAM WATER STREAM | | - | 01 | 4 | 18 | 0 | 18 | L | | | | П | H | H | Н | Н | | | | | | | | | Н | Н | | | | 18 |
| TOTAL TOTAL WAME LOCATION WANG TOLOGYTON W | | _ | 02 | V | 22 | 0 | 22 | \vdash | L | | | | H | H | H | Н | | | | | | Н | Н | _ | | _ | | | | 22 |
| TOTAL 100 | | \vdash | 63 | V | 23 | 0 | 23 | Н | Ц | | | Н | | | | | | | | | | | | - | - | | | | | 23 |
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| PRODUCTION RATES MAX. 1-8-5 MAX. D+ META DYNAMICS LAND SYSTEMS MAX. D+ MATA SEP vehicles will be produced on the same production MIN. D+ MATA SEP vehicles will be produced on the same production MIN. D+ MATA SEP vehicles will be produced on the same production MIN. D+ MATA SEP vehicles will be produced on the same production MIN. D+ MATA SEP vehicles will be produced on the same production MIN. D+ MIN. M | | | | | | | | 00- | | ОШО | ¬ < z | пπе | | | | | | လေကာငာ | o ∪ ⊢ | z 0 > | пшО | | - | | | | רכי | ∢ ⊃ ຫ | ω m σ | |
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| NEORDER NEOR | line as the M1A2 SEP vehicles | | | | | | | + | | REO | RDER | 1 | + | | | + | | ١ | | ١ | 1 | ١ | ı | Т | | | | | | |
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Item No. 16 Page 4 of 8 125

| FY 98 / 99 BUDGET PRODUCTION SCHEDULE | UCTIC | ON SCH | HEDOLE | jı: | | ā | P-1 Item Nomenclature: | omen | clature VY AS | nenciature: HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250) | T BRIC | SGE (F | (AB) | YS (M |) (do | 32325(| 6 | | | <u>ő</u> | Date: | | | Fet | February 1998 | 1998 | | |
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| Vehicle Manufacturing - Contrac | Н | | | H | | H | | H | \vdash | H | Н | Н | Ц | Ш | | | | П | H | H | Н | Н | H | H | Н | Н | | |
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| THAB venicles will be produced on the same production line as the M1A2 SEP vehicles. | + | | | - | | T | | REORDER | DER | + | + | | | 1 | | | | | 1 | | | T | | | | | | |
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| EV 98 / 99 BIIDGET PRODUCTION SCHEDIII E | TOTIC | ON SC | I I | ш | | | P-1 | P-1 Item Nomenclature: HEAVY ASS | Omen | nenclature: HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250) | SAULT | BRID | GE (H/ | B) SV | (MO | (62 | 3250) | | | | Date: | | | ıΞ | ebruan | February 1998 | | |
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| line as the M1A2 SEP vehicles. | | | | | | | ot | | REORDER | 띮 | Н | Ц | | П | | | Н | | | Ц | | П | | | | | | |
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Item No. 16 Page 6 of 8 127

| FY 98 / 99 BUDGET PRODUCTION SCHEDULE | OUCTIO | N SC | EDUL | щ | | <u> </u> | -: <u>Te</u> | P-1 Item Nomenclature: HEAVY ASS | nencia HEAV | nenciature: HEAVY ASSAULT BRIDGE (HAB) SYS (MOD) (GZ3250) | ULTB | RIDGE | (HAB | SYS | (MOD) | (GZ32) | (0) | | | <u> </u> | Date: | | | Feb | February 1998 | 966 | | |
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| 1. Vehicle Manufacturing - Contrac | | | H | | | | ┝ | H | L | | | | \vdash | | H | L | | | T | H | ⊢ | H | L | L | | | r | |
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| *HAB vehicles will be produced on the same production | H | | | | | | | Ξ | INITIAL | | | | П | Н | | П | Ц | | ΙŤ | | П | П | | | | | | |
| line as the M1A2 SEP vehicles. | + | | | 1 | Ī | 1 | ١ | | ORDE | _ | Ī | ı | ı | + | ١ | ı | | ١ | † | ١ | ١ | 1 | | | | | | |
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Item No. 16 Page 8 of 8 129

| | | Exhibit P-4 | 0. Budget It | Exhibit P-40. Budget Item Justification Sheet | ation Sheet | | | Date: | | Eabrigay 1000 | | |
|--|--|-----------------|---------------------|---|---------------------------------|------------------------|-------------------|----------------|---|-------------------|-------------|------------|
| Appropriation / Budget Activity/Serial No: | lai No: | | | | | P-1 Item Nomenclature: | ïë: | | | con finance | | |
| PROCUREMEN | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | CMBT VEHS/1/Tre | icked Combat Vehici | les | | | | ARMORED VEH LA | ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000) | B) (MOD) (GZ3000) | | |
| Program Elements for Code B Items: | ıs: | | | Code: | Other Related Program Elements: | ram Elements: | | | | | | |
| | | | | ∢ | | | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Oty | | | | | | | | | | | | |
| Gross Cost | 146.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.3 | 1.7 | 0.0 | 0.0 | 0.0 | 150.3 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 146.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.3 | 1.7 | 0.0 | 0.0 | 0.0 | 150.3 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 146.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.3 | 1.7 | 0.0 | 0.0 | 0.0 | 150.3 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| ALL ALL THE ALL THE ALL THE THE PERSON OF TH | A | 1-1-1-1 | 7 1 1 | A 1 10 11 1 | | | 1. 1. 1. 1. 1. 1. | | | | - | |

DESCRIPTION: The Armored Vehicle Launched Bridge (AVLB) is the current authorized standard assault bridge supporting heavy forces. AVLBs are primarily assigned to Combat Engineering training and War Reserve sites.

JUSTIFICATION: In order to fully modify the fleet, 35 vehicles, 20% of the Active Component and high priority War Reserve units need modifications. The Armored Top Driver's Night Viewer (DNV) and Smoke Grenade Launcher will improve the tactical maneuvering and operations capability of the AVLB. The DNV will improve the night Loading Air Cleaner and Air Induction System Improvements (Clean Air) will improve the reliability and extend engine life. The other two modifications, the AN/VVS-2 vision capability of the vehicle driver; the Smoke Grenade Launcher allows the AVLB to advance, deploy, and retreat under cover of obscuring smoke in a tactical environment. These vehicle modifications are required on AVLBs to make the vehicles supportable.

| | Exhibit P | Exhibit P-40M Budget Item Justification Sheet | em Justifica | tion Sheet | | | Date | | February 1998 | | · |
|--|--|---|--------------|--------------------------------|-----------------------|---------|----------------|-----------------|---|-----|--------|
| Appropriation / Budget Activity/Serial No. PROCUREMENT OF V | dget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | Tracked Combat Vehicles | | <u>.</u> | P-1 item Nomenclature | | ARMORED VEH LA | UNCH BRIDGE (AV | ARMORED VEH LAUNCH BRIDGE (AVLB) (MOD) (GZ3000) | | |
| Program Elements for Code B tlems | Sure | | Code | Other Related Program Elements | n Elements | | | | | | |
| Description | | Fiscal Years | | 10000 | 77 4000 | 0000 | 14,0004 | 2000 | EV 2003 | 4 | - C+OF |
| AVL B Block MOD | Classification | FY 1990 | 1887 | 0881 | 1988 | L1 2000 | 1 2001 | 2002 | L 2003 | 2 | - Cla |
| 1-97-05-4531 | Oper Capability | 0.0 | 0.0 | 0.0 | 1.0 | 1.3 | 1.7 | 0.0 | 0.0 | 0.0 | 4.0 |
| Totals | | 0.0 | 0.0 | 0.0 | 1.0 | 1.3 | 1.7 | 0.0 | 0.0 | 0.0 | 4.0 |
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| MODIFICATION TITLE (Cont): | | A | AVLB BIOCK MC | | | C+-CO- | 5 | | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | | | , | | | | | | | | | | | | | | | | |
| | FY | FY 1996 and Prior | £ | FY 1997 | Ā | FY 1998 | FY 1999 | 65 | FY 2000 | 0 | FY 2001 | - | FY 2002 | 1 | FY 2003 | | 21 | TOTAL | Ā |
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| RDT&E | | | | | | | | | | | _ | _ | | | | | | | |
| PROCUREMENT | | 4 | | | | | | | - 1 | | , | | | | | | | 1 | |
| Kit Quantity | | | | | | | 9 | | 20 | | on . | | | | | | | 32 | |
| Installation Kits | | | | | | | | 0.3 | | 6.0 | | 0.5 | | | | | | | 1.7 |
| Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | | | |
| Equipment | | | | _ | | | | | | - | - | | | | | | | | |
| Equipment, Nonrecurring | | | | | | | | | | | | | | | | | | | |
| Engineering Change Orders | | | | | | | - | | | | | | | | | | | | |
| Data | | | | | | | | 0.7 | | 0.1 | | 0.2 | | | | | | | 1.0 |
| Training Equipment | | | | _ | | | | | | | | | | | | | | - | |
| Support Equipment | | | | | | | | | | | • | | | | | | | | |
| Other | | | | | | | | | | | | | | | | | • | | |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | |
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| contract to actual cont | | | | | | | | | | | | | | | | | | | |
| Ilistaliation of natuware | | | | | | _ | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits | | | | | | | | | | | | | | | | | | | |
| FY 1997 Eqpt Kits | | | | | | | | | | | | | | | | | | | |
| FY 1998 Eqpt Kits | | | | | | | | | | | | | | | | | | - | |
| FY 1999 Eqpt Kits | | et en en en en en en en en en en en en en | | | | | | | 9 | 0.5 | | | | | | | | 9 | ö |
| FY 2000 Eqpt kits | | | | | | | | | 2 | 0.1 | 5 | 9.0 | | | | | | 20 | 0.7 |
| FY 2001 Eqpt kits | | | | | | | | | | | 0 | 0.4 | | | | | | 6 | ò |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | | |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | | | | | | | | | | | | | | |
| Total installment | | | | | | | | | 11 | 0.3 | 24 | 1.0 | | | | | | 35 | 1.3 |
| | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | Date: | | | | |
|---|----------------|--|---------------------|-------------------------|---------------------------------|------------------------|-------------|------------|-------------------------------|---------------|-------------|------------|
| | | Exhibit P-40, Budget i | 0, Budget it | tem Justification Sheet | ition Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | il No: | | | | | P-1 Item Nomenclature: | .e. | | | | | |
| PROCUREMEN | OF WPNS & TRKD | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | cked Combat Vehicle | SS | | | | M1 ABR/ | M1 ABRAMS TANK (MOD) (GA0700) | (40700) | | |
| Program Elements for Code B Items: | | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prod |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 447.6 | 35.0 | 50.1 | 62.9 | 29.2 | 53.3 | 30.4 | 62.5 | 97.1 | 119.9 | 1348.9 | 2336.9 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 447.6 | 35.0 | 50.1 | 62.9 | 29.5 | 53.3 | 30.4 | 62.5 | 97.1 | 119.9 | 1348.9 | 2336.9 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 447.6 | 35.0 | 50.1 | 62.9 | 29.5 | 53.3 | 30.4 | 62.5 | 97.1 | 119.9 | 1348.9 | 2336.9 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| DESCRIPTION: This budget line provides for the procurement and installation of modification kits for the Abrams series tank to improve Lethality, | s budget lin | e provides f | s for the procu | urement and install | installation | of modificati | on kits for | the Abrams | series tank | to improve | Lethality, | |

System (NBCFW), new Hand - Held Fire Extinguishers (HHFE), Improved Gunner's Station (IGS); Battlefield Override (BF/OR), Driver's Viewer Quick Release M1A1-D program and the Mounted Water Ration Heater (MWRH). Finally, there is the Presidentially directed HALON Replacement program (Ozone Depleting Chemical Replacement). These P-Forms also reflect the alignment of most MODS into BLOCKS in order to realize reduced installation costs from Survivability, Safety and Operational Capabilities. Tank Lethality is being improved by the Armament Enhancement Initiative (AEI) and the Embedded Battle Command (EBC). Tank Survivability and Safety improvements include Live Fire Category A (Manual Blaster, Driver's / Loader's Hatch Ballistic Rims, Turret (DVQR); System Enhancement Package (SEP); and Driver's Hatch Interlock (DHI). Tank Operational improvements include the Precision Lightweight GPS Cable Ballistic Protection and Driver's Hatch Latch); Live Fire Category B (Ammo Door Latch Mechanism, Smoke Generator Fuel Line, NBC Fire Warning Receiver (PLGR); Pulse - Jet System (PJS); Vehicle Intercommunications System (VIS); External Auxiliary Power Unit (EAPU); M1A2 Field Upgrades, the concurrent application.

JUSTIFICATION: The priorities noted here in are consistent with USA Armor School requirements and are structured to meet needs validated by Tank users in training and testing as well as in actions such as Operation Desert Storm (ODS). Degradation of tank warlighting capability and survivability, increased incidents of vehicle damage and crew injuries will occur if these modifications are delayed or deleted.

| Page of the Control | | Exhibit P-4 | Exhibit P-40M Budget It | em Justifica | tem Justification Sheet | | | Date | | February-98 | | |
|--|---|--|-------------------------|--------------|-------------------------|---------------------|---------|----------|------------------|-------------|-------|-------|
| Fiscal Years Fiscal Years Classification FY 1996 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 TC Total (HAR) [MOD 1] FY 1996 FY 1997 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 TC Total (HAR) [MOD 1] FY 1996 FY 1997 FY 1999 FY 2000 FY 2001 FY 2001 FY 2003 TC Total (HAR) [MOD 1] FY 1996 FY 1997 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 TC Total (HAR) [MOD 2] FY 1997 FY 1999 FY 1999 FY 2000 FY 2001 FY 2001 FY 2003 TC Total (HAR) [MOD 2] FY 1997 FY 1998 FY 1997 FY 1998 FY 1997 FY 1998 FY 1997 FY 1998 FY 1997 FY 1997 FY 1998 FY 1997 FY 1998 FY 1997 FY 1998 FY 1997 FY 1998 FY 1997 FY 1998 FY 1997 FY 1998 FY 1997 FY 1998 FY 1997 FY 1998 FY 1997 FY 1998 FY 1997 FY 1998 FY 1997 FY 1998 FY 1998 FY 1997 FY 1998 FY | Appropriation / Budget Activity/Serie PROCUREMENT | II NO. OF WPINS & TRKD CMBT VEHS / 1 / Tr | acked Combat Vehicle | 9 | | P-1 item Nomenclatu | 9 | M1 ABRAM | 3 TANK (MOD) (G/ | (0200) | | |
| Classification Fiscal Years From Fro | Program Elements for Code B Item | | | Code | Other Related Progra | am Elements | | | | | | |
| Classification | Description | | Fiscal Years | | | | | | | | | |
| Environmental 7.4 1.5 2.0 5.3 6.5 6.6 6.8 5.7 5.6 4 Interlock (DHI) [MOD 1] 7.4 1.5 2.0 5.3 6.5 6.6 6.8 5.7 5.6 4 Interlock (DHI) [Mod 2] 0.0 20.4 6.5 5.8 4.9 0.0 0.0 0.0 39.8 7 Calely Mod 2] 0.0 20.4 6.5 5.8 4.9 0.0 0.0 0.0 4.5 5 Legislative Compl. 27.0 6.6 6.0 5.3 0.7 0.0 0.0 0.0 6 Legislative Compl. 0.4 0.0 0.0 0.0 0.0 0.0 0.0 6 Interlock (DHI) [MOD 5] 0.5 0.6 0.6 0.6 0.6 0.6 0.6 13.4 1 Manprint GPS Receiver (PLGR) [MOD 5] 0.5 0.5 0.6 0.6 0.6 0.6 0.6 13.4 1 gory A (LFCA) [MOD 6] 2.7 2.1 4.2 1.1 0.8 0.6 0.3 0.0 2 Deficiency Correct. 2.4 1.8 0.8 0.8 0.7 0.7 0.6 0.0 Deficiency Correct. 2.4 1.8 0.8 0.8 0.7 0.7 0.6 0.0 Operational GPS Release (DVGR) [MOD 10] 0.0 0.0 0.0 0.0 0.0 Stem (PJS) [MOD 10] 0.3 0.2 0.3 0.2 0.0 0.0 0.0 0.0 A Relation Healer (MWRH) [MOD 11] 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 Manprint GPS Pace (SEP) [MOD 12] 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Derivational GPS Pace (SEP) [MOD 12] 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Derivational GPS Pace (SEP) [MOD 12] 0.0 0.0 0.0 0.0 0.0 0.0 Derivational GPS Pace (SEP) [MOD 12] 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Derivational GPS Pace (SEP) [MOD 12] 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Derivational GPS Pace (SEP) [MOD 12] 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Derivational GPS Pace (SEP) [MOD 12] 0.0 | OSIP NO. | Classification | FY 1996 | | FY 1998 | FY 1999 | FY 2000 | H | FY 2002 | FY 2003 | TC | Total |
| Environmental 7.4 1.5 2.0 5.3 6.5 6.6 6.8 5.7 5.6 4 Interlock (DHI) [Mod 2] Safety Communicational System (VIS) [MOD 3] Environmental System (VIS) [MOD 3] Engistant System (VIS) [MOD 3] Legislants System (VIS) [MOD 4] Coperational Mangint GPS Receiver (PLGR) [MOD 5] Environment Initiative (AEI) [MOD 5] Environment Initiative (AEI) [MOD 5] Environment Initiative (AEI) [MOD 5] Environment Initiative (AEI) [MOD 5] Environment Initiative (AEI) [MOD 5] Environment Initiative (AEI) [MOD 5] Environment Initiative (AEI) [MOD 5] Environment Initiative (AEI) [MOD 5] Environment Initiative (AEI) [MOD 6] Environment Initiative (AEI) [MOD 6] Environment Initiative (AEI) [MOD 6] Environment Initiative (AEI) [MOD 6] Environment Initiative (AEI) [MOD 6] Environment Initiative (AEI) [MOD 7] Environment Initiative (AEI) [MOD 7] Environment Initiative (AEI) [MOD 1] Environment Initiative (| Halon Replacement | (HAR) [MOD 1] | | | | | | | | | | |
| Interlock (DHI) [Mod 2] | 1-92-05-4411 | Environmental | 7.4 | 1.5 | | 5.3 | 6.5 | 9.9 | 6.8 | 5.7 | 5.6 | 47.4 |
| Safety Omnunications System (VIS) [MOD 3] Legislative Compl. 27.0 6.6 6.0 5.3 0.7 0.0 0.0 0.0 4.5 5 6 hancement initiative (AEI) [MOD 3] Ananoment Package (SEP) [MOD 12] Sommunications System (VIS) [MOD 3] Ananoment Package (SEP) [MOD 12] Ananoment Package (SEP) [MOD 12] Communications System (VIS) [MOD 3] Ananoment Package (SEP) [MOD 12] Communications System (VIS) [MOD 3] Ananoment Package (SEP) [MOD 12] Communications System (VIS) [MOD 3] Communications System (VIS) [MOD 12] Communications System (VIS) [MO | Driver's Hatch Interlo | ck (DHI) [Mod 2] | | | | | | | | | | |
| Deficiency Correct. Control of the Control of Control | 1-97-05-4520 | Safety | 0.0 | 20.4 | | 5.8 | 4.9 | 0.0 | 0.0 | 0.0 | 39.8 | 77.4 |
| Legislative Compl. 27.0 6.6 6.0 5.3 0.7 0.0 0.0 0.0 4.5 5 5 Annocement Initiative (AEI) [MOD 4] | Vehicle Intercommun | ications System (VIS) | [MOD 3] | | | | | | | | | |
| Amportational Operational Actional Initiative (AEI) [MOD 4] 60.1 0.4 0.0 | 1-92-05-4412 | Legislative Compl. | 27.0 | 9.9 | | 5.3 | 0.7 | 0.0 | 0.0 | 0.0 | 4.5 | 50.1 |
| Operational weight GPS Receiver (PLGR) [MOD 5] 60.1 0.4 0.0 </td <td>Armament Enhancen</td> <td>nent Initiative (AEI) [M</td> <td>OD 4]</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | Armament Enhancen | nent Initiative (AEI) [M | OD 4] | | | | | | | | | |
| wwight GPS Receiver (PLGR) [MOD 5] iweight GPS Receiver (PLGR) [MOD 5] 0.6 0.6 0.6 0.6 0.6 0.6 0.6 13.4 1 gory A (LFCA) [MOD 6] 3.4 0.6 0.6 0.6 0.6 0.6 0.3 0.0 3 </td <td>1-89-05-4226</td> <td>Operational</td> <td>60.1</td> <td>0.4</td> <td></td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>60.5</td> | 1-89-05-4226 | Operational | 60.1 | 0.4 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 60.5 |
| Manprint 0.4 0.0 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.8 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0. | Precision Lightweigh | t GPS Receiver (PLGR) | [MOD 5] | | | | | | | | | |
| gory A (LFCA) [MOD 6] Joberational Correct. 14.5 5.3 3.5 3.5 3.5 3.5 3.5 0.5 0.5 0.3 0.0 2 arride (BF/OR) [MOD 7] arride (BF/OR) [MOD 7] 2.7 2.1 4.2 1.1 0.8 0.6 0.3 0.0 2 gory B (LFCB) [MOD 8] action (PCB) [MOD 9] action (PCB) [MOD 9] action (PCB) [MOD 10] action (PCB) [MOD 10] action (PCB) [MOD 10] action (PCB) [MOD 10] action (PCB) [MOD 11] action (PCB) [MOD 11] action (PCB) [MOD 12] | 1-92-05-4417 | Manprint | 0.4 | 0.0 | | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 13.4 | 17.3 |
| Deficiency Correct. 14.5 5.3 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 2.9 2.5 0.3 3.5 3.5 3.5 3.5 3.5 3.5 2.5 0.3 0.0 2.5 0.3 0.0 2.5 0.3 0.0 2.5 0.0 | Live Fire Category A | (LFCA) [MOD 6] | | | | | | | | | | |
| gory B (LFCB) [MOD 7] 13.7 2.7 2.1 4.2 1.1 0.8 0.6 0.3 0.0 2 gory B (LFCB) [MOD 8] LFCB) [MOD 8] 0.8 0.8 0.7 0.7 0.7 0.6 0.0 Deficiency Correct. 2.4 1.8 0.8 0.8 0.7 0.7 0.6 0.0 Pr Quick Release (DVGR) [MOD 9] 0.3 0.2 0.3 0.2 0.0 | 1-89-05-4230 | Deficiency Correct. | 14.5 | 5.3 | | 3.5 | 3.5 | 3.3 | 2.9 | 2.5 | 0.3 | 39.3 |
| Operational gony B (LFCB) [MOD 8] 13.7 2.7 2.1 4.2 1.1 0.8 0.6 0.3 0.0 2 gony B (LFCB) [MOD 8] Manprint 2.4 1.8 0.8 0.8 0.7 0.7 0.7 0.6 0.0 or Cuick Release (DVQR) [MOD 9] Safety 0.3 0.2 0.0 | Battlefield Override | (BF/OR) [MOD 7] | | | | | | | | | | |
| gory B (LFCB) [MOD 8] 2.4 1.8 0.8 0.8 0.7 0.7 0.6 0.0 Deficiency Correct. 2.4 1.8 0.8 0.8 0.7 0.7 0.6 0.0 sr Cuick Release (DVQR) [MOD 9] Safety 0.3 0.2 0.3 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 296.9 34 Stem (PJS) [MOD 10] Stem (PJS) [MOD 11] Analytic Hoater (MWRH) [MOD 11] 0.1 0.1 0.0 | 1-89-05-4229 | Operational | 13.7 | 2.7 | | 4.2 | 1.1 | 0.8 | 9.0 | 0.3 | 0.0 | 25.5 |
| Deficiency Correct. 2.4 1.8 0.8 0.8 0.7 0.7 0.6 0.0 Aduick Release (DVQR) [MOD 9] Safety 0.2 0.3 0.3 0.2 0.0 0.0 0.0 0.0 0.0 Stem (PJS) [MOD 10] Safety Stem (PJS) [MOD 10] Safety 0.0 | Live Fire Category B | (LFCB) [MOD 8] | | | | | | | | | | |
| Safety 0.3 0.2 0.3 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 296.9 34 Sterm (PJS) [MOD 10] Presentional Package (SEP) [MOD 12] 0.1 0.1 0.0 < | 1-94-05-4481 | Deficiency Correct. | 2.4 | 1.8 | | 0.8 | 0.8 | 0.7 | 0.7 | 9.0 | 0.0 | 8.6 |
| Safety 0.3 0.2 0.3 0.2 0.0< | Driver's Viewer Quick | k Release (DVQR) [MC | [6 QC | | | | | | | | | |
| Stem (PJS) [MOD 10] Stem (PJS) [MOD 10] Stem (PJS) [MOD 10] Stem (PJS) [MOD 11] Stem (PJS) [MOD 11] Stem (PJS) [MOD 12] | 1-92-05-4427 | Safety | 0.3 | 0.2 | | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 |
| Operational 29.0 6.7 3.5 2.4 1.5 0.0 0.0 0.0 296.9 ar Ration Heater (MWRH) [MOD 11] Manprint 1.9 0.1 0.1 0.0 <td>Pulse - Jet System</td> <td>(PJS) [MOD 10]</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | Pulse - Jet System | (PJS) [MOD 10] | | | | | | | | | | |
| ar Ration Heater (MWRH) [MOD 11] Manprint Manprint 1.9 0.1 0.0 0.0 0.0 0.0 0.0 0.0 Cement Package (SEP) [MOD 12] Operational 0.0 0.0 0.0 0.0 2.9 46.5 82.8 107.4 655.5 89 | 1-92-05-4475 | Operational | 29.0 | 6.7 | | 2.4 | 1.5 | 0.0 | 0.0 | 0.0 | 296.9 | 340.0 |
| Manprint 1.9 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.9 46.5 82.8 107.4 655.5 89 | Mounted Water Ratic | on Heater (MWRH) [MC | OD 11] | | | | | | | | | |
| ncement Package(SEP)[MOD 12] Operational 0.0 0.0 0.0 2.9 46.5 82.8 107.4 655.5 | 1-92-05-4426 | Manprint | 1.9 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| Operational 0.0 0.0 0.0 2.9 46.5 82.8 107.4 655.5 | System Enhancemer | | D 12] | | | | | | | | | |
| | 1-96-05-4505 | Operational | 0.0 | 0.0 | | 0.0 | 2.9 | 46.5 | 82.8 | 107.4 | 655.5 | 895.1 |

| Exhibit P-40M Budget Item Justification Sheet | udget Iten | n Justific | ation Sheet | | Date | | ı. | February-98 | | |
|---|----------------|--------------|--------------------------------|-----------------------|------|-------------|-------------------------------|-------------|---------|---------|
| Appropriation / Budget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | ombat Vehicles | | | P-1 Item Nomericature | | M1 ABRAMS T | M1 ABRAMS TANK (MOD) (GA0700) | (00 | | |
| Program Elements for Code B flems | | Pood Oode | Other Related Program Elements | am Elements | | | | | | |
| Embedded Battle Command (EBC) [MOD 13] | _ | | : | | | | | | | |
| 1-96-05-4516 Operational | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.1 | 1.0 | 5.5 | 9.6 |
| iary Pwr | ć | ć | | | ć | ć | 0 | | 9 | 6 |
| 1-85-05-405/ Operational | 0.0 | 8.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 40.8 | 20.8 |
| 1-97-05-4521 Operational (EAPO) [WOD 19] | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 |
| ning (P | | | | | | | | | | i |
| 1-97-05-4524 Safety | 0.0 | 0.0 | 0.0 | 4.1 | 3.3 | 0.4 | 0.0 | 0.0 | 5.3 | 13.1 |
| Hand-Held Fire Extinguisher (HHFE) [MOD 17] | | | | | | | | | | |
| 1-97-05-4525 Safety | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 |
| M1A2 Field Mods (A2FM) [MOD 18] | | | | | | | | | | |
| 1-97-05-4534 Deficiency Correction | 0.0 | 1.4 | 0.0 | 0.2 | 1.0 | 2.0 | 1.0 | 1.2 | 0.9 | 13.7 |
| Matrix Support (MXSP) [MOD 19] | | | | | | | | | | |
| OSIP NO 20 Operational | 0.0 | 0.5 | 0.5 | 0.5 | 9.0 | 9.0 | 9.0 | 9.0 | 3.4 | 7.3 |
| Prior Year Mod Installation (PYMI) [MOD 20] | | | | | | | | | | |
| OSIP NO 21 Operational | 65.0 | 4.9 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 70.4 |
| M1A1-D Integration Kit [MOD 21] | | | | | | | | | | |
| OSIP NO. 22 Operational | 0.0 | 0.0 | 0.0 | 20.3 | 0.0 | 0.0 | 0.0 | 0.0 | 271.4 | 291.7 |
| | | | | | | | | | | |
| Totals | 221.7 | 62.9 | 29.2 | 53.3 | 30.4 | 62.5 | 97.1 | 119.9 | 1,348.4 | 2,025.4 |
| | | | | | | | | | T | |
| | | | | | | | | | | |

| INDIVIDUAL MODIFICATION Date February 1998. |
|--|
| MODIFICATION TITLE: Halon Replacement (HAR) [MOD 1] 1-92-05-4411 |
| MODELS OF SYSTEMS AFFECTED: M1 = 355, IPM1 = 818, M1A1 = 4327, M1A2 = 650 TOTAL RQMT = 6150 |
| DESCRIPTION / JUSTIFICATION: |
| This Modification changes the engine compartment fire supression system in all models of the Abrams tank. This retrofit involves |
| the substitution of a dry powder fire retardant (FM-200) for the Halon 1301 gas currently used. This requirement was mandated |
| by the 1988 Montreal Protocol in which 93 countries including the U.S.A. agreed to phase out Ozone Depleting Chemicals [ODC's] |
| including the Halon 1301 used in the Abrams Tank Engine Compartment [Halon 1301 remains authorized for the Abrams Crew |
| Compartment due to survivability concerns]. See 1992 DOD directive 6050.9 which establishes the policy on ODC's for the Armed |
| Forces and DA letter 200 / 9 which implements that policy within the U.S. Army. The Halon 1301 replacement modification |
| represents the implementation of a Presidential directive. |

| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: | TUS/MA | JOH DI | EVELOP | MENT | MILEST | TONES: | | | a., | PLANNED | 입 | | √ 1 | 000 | ACCOMPLISHED | 出 | | | | | |
|---|---------------------------------|-------------------------|-------------|-----------|--------|---------|---------|---------|--------|---------|---------|--------|------------|---------|---------------------|----------------------|-----|----------|---------|-----|--------|
| | Preliminary Design Review | ary Des | sign Re | view | | | , | • | | 1093 | က္က | | | | 1093 | ~ | | | | | , |
| | Critical Design Review | Design | Review | | | • | • | • | | 109 | 4 | | | | 3037 | | | | | | |
| | Contractor Test & Eval. | or Test | t & Evs | ÷ | | • | , | | , | 209 | ဖွ | | | | 2096 | " | | | | | |
| | Development Test & Eval. | ment T | est & L | Eval. | | • | • | , | | 3096 | 9 | | | | 4096 | " | | | | | |
| | Initial Operational Test & Eval | peration | al Tes | & Eva | ÷ | , | • | • | • | 209 | 2 | | | | 3097 | | | | | | |
| | IPA Pro | IPR Production Decision | Decisi | Ľ | | | • | , | | 4Q9 | 7 | | | | 4097 | | | | | | |
| | Tech. Data Package Available | ata Pa | ckage / | Available | 6 | - | • | 1 | | 3098 | ø | | | | | | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | | | | | | |
| | Pr Yr | | FY 1997 | 197 | | | FY 1998 | 98 | | | FY 1999 | 66 | | | FY 2000 | 000 | | | FY 2001 | 01 | |
| | Totals | - | 2 | 3 | 4 | - | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | - | - | _ | 270 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| Outputs | | | | | | | | | | | 30 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 |
| | | | | | | | | | | | | | | | | | | | | | |
| | | FY 2002 | 202 | | | FY 2003 | 93 | _ | | FY 2004 | 84 | | | FY 2005 | 305 | | | To | | Tof | Totals |
| | - | 2 | က | 4 | - | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | Con | Complete | | | |
| Inputs | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 150 | 30 | | | | | | | | | | | | 6150 |
| Outputs | 270 | | 270 270 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 180 | | | | | | | | 6150 |
| METHOD OF IMPLEMENTATION: Contr. / Depot Teams ADMINISTRATIVE LEADTIME: | ENTATION | ä | Contr. / | Depot T | eams A | DMINIS | THATE | VE LEA | DTIME: | | 3 | Months | - | PODD | CTION | PRODUCTION LEADTIME: | ME: | 4 M | Months | | |
| Contract Dates: | | _ | FY 1997 | z | ٧/١ | | u. | FY 1998 | | APR 98 | | | _ | FY 1999 | | APR 99 | _ | | | | |
| Delivery Date: | | _ | FY 1997 | z | ٧/١ | | щ. | FY 1998 | | AUG 98 | ~ | | _ | FY 1999 | | AUG 99 | • | | | | |

| | | | | | NON | INDIVIDUAL MODIFICATION | AODIFIC | ATION | | | | | | | Õ | Date | | February 1998 | 1998 | |
|---|-----------|-----|-------------|-------------------------|---------|-------------------------|---------|-------|--------------|-----|---------|-----|---------|-----|---------|------|--------|---------------|-------|------|
| MODIFICATION TITLE (Cont): | | Hak | on Rep | Halon Replacement (HAR) | nt (H/ | /R) [N | [MOD 1] | | 1-92-05-4411 | 411 | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | FY 1996 | 99 | | | | | | | | | | | | | | | | | | |
| | and Prior | jo | FY 1997 | Н | FY 1998 | Н | 7 199 | Н | FY 2000 | Н | FY 2001 | Н | FY 2002 | 02 | FY 2003 | 903 | 5 | | TOTAL | Å. |
| | ģ | 49 | οţ | 49 | οţ | \$ | ò | \$ | Qţ | ₩ | οţ | 49 | οţ | 69 | λ̄ο | 69 | ð | 49 | ð | € |
| RDT&E PROCUREMENT | | | | | | | | | | | | | | | | | | | | |
| Kit Quantity | 0 | | 0 | • | 920 | | 1080 | | 1080 | _ | 1080 | | 1080 | | 750 | | 510 | | 6150 | |
| Installation Kits | | | | | | | | 1 | - | | | | | | | | | | - | |
| Installation Kits, Nonrecurring | | | | | | - | | o | | 0 | | 0.4 | | 4.1 | | 0 | | - | | 000 |
| Equipment Nonzeouring | | - | | | | j j | | 9 | | 3 | | 2 | | ř | | ì | | ; | | 1 |
| Engineering Change Orders | | | | | | | | | | | | | | | | | | | ••• | |
| Engineering & Source Select. | | 7.4 | | 1.5 | | | | | | | | | | | | | | | | 8.9 |
| Training Equipment | | | | | | | | | **** | | | | | | | | - | | • | |
| Support Equipment | | | | | | | | | | - | | | | | | | | | | |
| Other | | | | - | | | | | | | | | | | | | ···, · | | | |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
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| | | | | | - | | | | | | | , | | • | | | | | | |
| Organization Control of the Control | | | | | | | | | | | | | | | | | | | | |
| EX 4006 & Drior East Vite | | | | | | | | | | | | | | | | | | | | |
| בווט בלחו בי צווס | | | | | | | _ | | | | | | | | • | | | | | |
| FY 1997 Eqpt Kits | | | | | | | | | | | | _ | | | | | | | | |
| FY 1998 Eqpt Kits | | | | | | | 220 | 4. | | | | | | | | | | | 220 | 4. |
| FY 1999 Eqpt Kits | | | | | • | | | _ | 1080 | 2.6 | | | | | | | | | 1080 | 2.6 |
| FY 2000 Eqpt kits | | | | | • | | | | | | 1080 | 5.6 | | | | | | | 1080 | 2.6 |
| FY 2001 Eqpt kits | | | | | | | | | | | | | 1080 | 2.7 | | | | | 1080 | 2.7 |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | 1080 | 2.8 | - | | 1080 | 2.8 |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | 750 | 2.1 | 750 | 2.1 |
| TC Equip 510 Kits | | | | | | | | | Α | | | | | | | | 510 | 1.4 | 510 | 1.4 |
| Total Installment | | | | | | | 220 | 1.4 | 1080 | 2.6 | 1080 | 2.6 | 1080 | 2.7 | 1080 | 2.8 | 1260 | 3.5 | 6150 | 15.6 |
| Total Procurement Cost | | 7.4 | | 1.5 | - | 2.0 | - | 5.3 | | 6.5 | | 9.9 | | 6.8 | | 5.7 | | 5.6 | | 47.4 |
| | | | | | | | | | | | | | | | | | | | | |

| Modification | |
|---------------------------|--|
| Exhibit P-3a Individual I | |
| _ | |

| | | | | Z | INDIVIDUAL MODIFICATION | IL MOD | FICATI | N O | | | | | | Date | ٩ | | February 1998 | 1998 | |
|---|------------------------------|-------------------|-----------|---------------------------------|--------------------------|---------|--------|------------|------------|--|------------|--|--------------|--------|-------|---------------|---------------|-------|--------|
| MODIFICATION TITLE: Dr | Driver's Hatch Interlock | Interl | 1 | (DHI) | [Mod 2] 1-97-05-4520 | 2] 1-97 | -05-45 | 20 | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: M1 | ECTED: M1 | = 0, 1 | IPM1 = | 818, | M1A1 = | = 4327, | | M1A2 = 435 | | TOTAL | ROMT | 11 | 5580 | | | | | | |
| DESCRIPTION / JUSTIFICATION: | ION: | | | | | | | | | | | | | | | | | | |
| The Driver's Hatch Interlock (DHI) is a | nterlock (D | si (H | | FETY | modif | cation | which | prov | ides a | n elec | tronic | SAFETY modification which provides an electronic interface between the Driver's Hatch and | ace be | stweer | ι the | Driver | 's Ha | tch a | g |
| the Turret Drive (Rotation) controls. | tation) con | trols. | | ırpose | is to | preclu | ide tu | rret ro | tation | while | the d | purpose is to preclude turret rotation while the driver's hatch is open. In the recent past | hatch | is of | en. | In the | rece | nt pa | st |
| there have been several accidents in the | eral accid | ents ir | the . | ield w | here | he dri | ver ha | se pee | niu . | red or | killec | e field where the driver has been injured or killed by inadvertently extending his head | adver | tently | exten | ding | is he | ad | - |
| Outside the natch while the turret was being rotated. Without this funding the potential exists for additional | the noten | ret wa tial ex | ists beli | eing rotated. for additional | _ | ine L | MIL W | II assu | ne ma | The DHI will assure that similar driver accidents and / or fatalities. | liar ac | The DHI Will assure that similar accidents will not occur in the future. driver accidents and / or fatalities. | E A | 101 | | u tue | ruture | a.i | |
| April 97 contract award shown below is | ard shown | pelow | | M1A2 only. | | | | | | | | | | | | | | | |
| January 98 contract award shown below | award sno | wn be | | is mital only. | oniy. | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | AAJOR DEVE | LOPME | | MILESTONES: | :Si | | | PLANNED | NED | | 4 | ACCOMPLISHED | MPLIS | | | | | | |
| Prelir | Preliminary Design Review | Ju Rev | iew | | | | • | 2096 | 96 | | | | 1093 | | | | | | |
| Critic | Critical Design Review | eview | | | • | | • | 3096 | 96 | | | | 3094 | | | | | | |
| Deve | Development Test & | st & E | Eval. | | , | • | : | 4096 | 96 | | | | 4096 | | | | | | |
| PR | IPR Production Decision | Decision | _ | | • | | • | 4097 | 76 | | | | 4097 | | | | | | |
| ECP | ECP Completed | | | | • | , | • | 1098 | 98 | | | | 1098 | | | | | | |
| Tech | Tech. Data Package Available | rage A | vailable | | | | | 1098 | 98 | | | | | | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | | | | |
| Pr Yr | ĹL. | FY 1997 | | | FY | FY 1998 | | | FY 1999 | 666 | | | FY 2000 | 00 | | | FY 2001 | 100 | |
| Totals | - | 2 | 3 | | | | | - | 2 | 3 | 4 | - | 2 | 8 | 4 | - | 7 | ဧ | 4 |
| Inputs | | 375 | 5 400 | 0 400 | 400 | 400 | 150 | 145 | 140 | 135 | 135 | 135 | 135 | 131 | 60 | | | | |
| Curputs | | 2 | | | | | | 3 | 2 | 2 | | 202 | 107 | 107 | 2 | 1 | | 1 | |
| | FY 2002 | | | FY | FY 2003 | | | FY 2004 | 900 | | | FY 2005 | 95 | | | 10 10 | | - | Totals |
| | 2 | 3 | 4 | 1 | 2 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | Com | Complete | | | |
| Inputs | | | | | | | | | | | | | | | | 2499 | | | 5580 |
| Outputs | | | | _ | | | | | | | | | | | | 2499 | | | 5580 |
| METHOD OF IMPLEMENTATION: | | Contractor Insta | nstall | ADMI | ADMINISTRATIVE LEADTIME: | TIVE LE | ADTIM | : | ~ | Months | <u>.</u> . | PRODUCTION LEADTIME: | TION | EADTII | ij | 4 ∑ | Months | | |
| Contract Dates: | FY 1997 | 997 | APR 97 | 97 | | FY 1998 | | JAN 98 | د د | | | FY 1999 | | FEB 99 | _ | | | | |
| Delivery Date: | FY 1997 | /66 | AUG 97 | <i>)</i> 6 | | FY 1998 | | MAY 98 | اء | | 1 | FY 1999 | | 88 NO | | ١ | | | |

| | | | | | | INDIVIDUAL MODIFICATION | AL MOD | FICATIO | z | | | | | | | Date | | February 1998 | y 1998 | |
|----------------------------------|-----|-----------|---------|-------------------|----------------|-------------------------|--------|----------------------------|--------|----------|----------|-----|----------|-----|-----|---------|------|---------------|---------|------|
| MODIFICATION TITLE (Cont): | | | river's | Driver's Hatch In | Interlock | ck (DF | (I) | (DHI) [Mod 2] 1-97-05-4520 | -97-05 | -4520 | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | | | | | | | | | | | | | | | | | | | | |
| | | FY 1996 | الم | 4004 | ĺ | 4000 | ì | 0007 | ì | 900 | ì | 100 | | | | | | | | |
| | e S | and Prior | Ö | 881 2 | ð | 888 | Ì ≥ | 888 | 20 | 1 2000 A | Otv 2001 | 3 | Otv Suns | 200 | Otv | FY 2003 | 2 ≥ | 4 | Oto Oto | 45 |
| RDT&E | | | | | - | | | | | | | | | | | | | | | • |
| PROCUREMENT | | | | | | | | | | | | | | | | | | | | |
| Kit Quantity | | | 2433 | 3 | 228 | 80 | 450 | | | | | | | | | | 2499 | | 2580 | |
| Installation Kits | | | | | | | | | | | | | | | | | | | | |
| Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Equipment | | | | 18.5 | 2 | 2.1 | | 4.0 | | | | | | | | | | 27.3 | | 51.9 |
| Equipment, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Engineering Change Orders | | | | - | - - | | | | | | | | | | | | | | | -: |
| Data | | | | | | | | | | | | | | | | | | | | |
| Training Equipment | | | | | | | | | | | | | | | | | | | | |
| Support Equipment | | | | | | | | | | | | | | | | | | | - | |
| Other (Tet & Source select) | | | | | | | | | | | | | | _ | | | | | | |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | | - |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | • | | |
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| | | | | | | | | | | | | | | | | | | | | |
| -turn | | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 1997 Eqpt Kits | | | 422 | | 0.8 1067 | 7. 4.4 | 427 | 1.8 | | | | _ | | | | | | | 2433 | 9.2 |
| FY 1998 Equt Kits | | | | | | | | | 228 | | | | | | | | | | 228 | 6 |
| FY 1999 Eapt Kits | | | | | | | | | 420 | 1.8 | | | | | | | | | 420 | 00 |
| 100 CO CO CO | | | | | | | | | Ì | | | _ | | | | | | | 2 | 2 |
| FY 2000 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 2001 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| 111 | | | | | | | | | | | | | | | | | | | | |
| TC Equip 2499Kits | | | | | | | | | | | | | | | | | 2499 | 12.5 | 2499 | 12.5 |
| 4 | | | 422 | | 0.8 1067 | | 427 | | 1165 | | | | | | | | 2499 | 12.5 | 5580 | 24.4 |
| Total Procurement Cost | | | | 20.4 | 4. | 6.5 | 10 | 5.8 | | 4.9 | | | | | | | | 39.8 | | 77.4 |
| | | | | | | | | | | | | | | | | | | | | |

| | | 66 | OCT | | FY 1999 | _ | | 80 | OCT . 98 | | FY 1998 | _ | | SEP 97 | | FY 1997 | Œ | | Delivery Date: |
|---|-------------------|-----------------|----------------------|----------------------|---------|----------------|-------------------|-----------------|----------------------|--------|---|---------|------------------|------------------|---------------------------|-------------------------|-------------------------------|---|--|
| | | 66 | | | FY 1999 | _ | | 86 | 6 NOF | | FY 1998 | ш. | | APR 97 | | FY 1997 | Œ | | Contract Dates: |
| Months | 4 | TIME | PRODUCTION LEADTIME: | CTION | PRODL | | Months | - | | DTIME | ADMINISTRATIVE LEADTIME: | STRATI | DMINIS | A | ams | eld Te | ontr. Fi | Depot / Contr. Field Teams | IMPLEMENTATION: D |
| 4508 | 322 | | | | | | | | | | | | | | | | | | Outputs |
| 4508 | 322 | | | | | | | | | | | | | | | | | | Inputs |
| | Complete | ŏ | 4 | 3 | 2 | - | 4 | 3 | 2 | - | 4 | 3 | 2 | 1 | 4 | 3 | 2 | 1 | |
| Totals | 10 | | | 005 | FY 2005 | | П | 90 | FY 2004 | | H | 03 | FY 2003 | | H | 12 | FY 2002 | | |
| | | | 1 | | | • | | | | 5 | 2 | 5 | 3 | 2 | 2 | 3 | 3 | 305 | |
| | | 67 | 108 | 128 | 128 | 112 | 113 | 113 | 113 | 128 | 128 | 128 | 128 | 163 | 40, | 164 | 164 | 2568 | Inputs |
| 2 3 4 | + | 4 | 3 | 2 | - | 4 | 3 | 2 | - | 4 | 3 | 2 | - | 4 | 3 | 2 | - | Totals | ĭ |
| FY 2001 | | | 000 | FY 2000 | | | 666 | FY 1999 | | | 86 | FY 1998 | | | 37 | FY 1997 | | Pr Yr | |
| | | | | | | | | | | | | | | | | | | | Installation Schedule: |
| | | | | | | | | | | | | | | | | | | | |
| | | | | 2092 3094 4094 | | | | 0144 | 4092 3094 4094 | | | | | l. Eval. | Eval. st & I | est & nal Te Deci | nent T peration duction | Development Test & Eval. Initial Operational Test & I IPR Production Decision | O E # |
| | | - | ACCOMPLISHED | MPLI | ACCO | 7 | | 回。 | PLANNED 4092 | | | | ONES | MILEST | MENT | VELOP | OR DE | S / MAJ | DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES. Davelopment Tast & Evel |
| | | | • | | | | | | | | | | | | | | | | |
| milestones are for USA CECOM, the "A" proponent for the VIS program. Current funding produced prior to VIS availability (Balance of M1A2's will be fitted in production via the | m. produc | orogra ed in | VIS p | will b | ant for | opone of M1 | "A" pr ance | the y (Bal | COM, | S ava | for US | are | tones | | . All 11A2's 11A1's | ogram all N | ed pre offit of () and | andate e retro ogram | Congressionally mandated program. All will provide for the retrofit of all M1A2's M1A2 Upgrade program) and all M1A1's |
| VIS replaces the AN / VIC - 1 which is technologically obsolete, difficult to maintain and susceptible VIS is a state-of-the-art replacement which has none of these drawbacks. This is a | tain ar s is a | main | ult to | diffic | colete, | ly obs | ogical s non | schnol ch ha | is te | which | state-of-the-art replacement which has none of these drawbacks. This is | NN/V | the / e-of-tr | laces a state | VIS repli | > > | ations | munic | to tank direct communications. |
| (VIS) is an intercom for inter-crew communications and a connection to a radio for tank | to a | ction | conne | о Т | ns ar | oicatio | mman | ν Mei | ter-cr | for i | arcom. | n inte | <u></u> | | veten | o, suc | nicati | muc | The Vehicle Intercommunications System |
| | | | | | | | | | | | | | | | | | | CATION | DESCRIPTION / JUSTIFICATION: |
| | | | | | 86 | = 45 | TOTAL ROMT = 4508 | TOTAL | 81 | 12 = 1 | = 0, M1A1 = 4327, M1A2 = 181 | = 432 | M1A1 | | IPM1 | 1 = 0, | red: M | AFFECT | MODELS OF SYSTEMS AFFECTED: M1 = 0, IPM1 |
| | | | | | | | | | | | | | | | | | | | INCOLUCY OF THE |

Vehicle Intercommunications System (VIS) [MOD 3] 1-92-05-4412

MODIFICATION TITLE:

INDIVIDUAL MODIFICATION

Contract Dates: Delivery Date:

| | | | | | QN | INDIVIDUAL MODIFICATION | MODIF | CATION | | | | | | | ۵ | Date | | February 1998 | 1998 | |
|---|-----------|-------|----------|--------|--------|---|---------|--------|---------|--------|----------|-----------|---------|-----|---------|------|-----|---------------|-------|------|
| MODIFICATION TITLE (Cont): | | Vel | nicle In | tercom | munica | Vehicle Intercommunications System (VIS) [MOD 3] 1-92-05-4412 | ystem | (VIS) | [MOE | 3] 1-{ | 92-05- | 4412 | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | EV 1006 | 900 | | | | | | | | | | | | | | | | | | |
| | and Prior | Prior | FY 1997 | 266 | FY 19 | 1998 | FY 1999 | 66 | FY 2000 | 2 | FY 2001 | 5 | FY 2002 | 20 | FY 2003 | 203 | JT. | | TOTAL | 4 |
| | Q. | €9 | δţ | 69 | Qty | 69 | Oty | 69 | Ωty | \$ | Ωty | €9 | Qty | ₩. | Qty | s | δ | es. | Qty | 89 |
| RDT&E PROCUREMENT | | | - | | | | | | | | | | | | | | | | | |
| Kit Quantity Installation Kits | 5268 | | 655 | | 512 | | 451 | | | | _ | | | | | | 322 | | 4208 | |
| Installation Kits, Nonrecurring | | | | | | | | | | | | | | *** | | | | | | |
| Equipment | | 22.9 | | 5.7 | | 5.1 | | 4.6 | | | | | | | | | | 3.9 | | 42.2 |
| Equipment, Nonrecurring Engineering Change Orders | | 0.2 | | | | | | | | | | | | | , | | | | | 0.0 |
| Testing | | 0.2 | | | | | | - | | | | | | | | | | | | 0.2 |
| Training Equipment | | | | | | | - | | | | | | | | | | | | | |
| Support Equipment | | 17 | | | | | | | | | | | | | | | | | | 1 |
| Interim Contractor Support | | 0.5 | | | | | | | | | | | | | | | | | | 0.5 |
| | | | | | , | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | ···· | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits | 1932 | 1.5 | 989 | 0.9 | | | | · | | | | | | | | | | | 2568 | 2.4 |
| FY 1997 Eqpt Kits | | | | | 655 | 6.0 | | | | | | • | | | | | | | 655 | 0.9 |
| FY 1998 Eqpt Kits | | | | | | | 212 | 0.7 | | | | | | | | | | | 512 | 0.7 |
| FY 1999 Eqpt Kits | | | | | | | | | 451 | 0.7 | | | | | | ~ | | | 451 | 0.7 |
| FY 2000 Eqpt Kits | | | | | | | • | | | | | | | | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | - | - | | | | | |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| TC Equip 322 Kits | s | | | | | | | | - | | | | | | | | 322 | 9.0 | 322 | 0.6 |
| Total installment | 1932 | 1.5 | 929 | 0.9 | 655 | 0.9 | 512 | 0.7 | 451 | 0.7 | \dashv | | | | | | 322 | 9.0 | 4508 | 5.3 |
| Total Procurement Cost | | 27.0 | | 9.9 | | 0.9 | | 5.3 | | 0.7 | - | \exists | - | | | | | 4.5 | | 50.1 |

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| | | | | S | IVIDUAL | INDIVIDUAL MODIFICATION | ATION | | | | | | | Date | | Februa | February 1998 | |
|---|-------------------------------------|----------------------|--------------------|-----------------|------------------|--|---|-------------------|-----------------|----------------|--------------------|--------------------|---------------------|--------------------------|----------|--|---------------|--------------|
| MODIFICATION TITLE: | E. Armament Enhancement Initiative | Inhance | ment Ir | nitiative | (AEI) | | [MOD 4] 1-89-05-4226 | 9-05-4 | 226 | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: M1 | AS AFFECTED: M | , 0 = | IPM1 = | = 0, M1 | M1A1 = 4327, | | M1A2 = 0 | 75 | TOTAL ROMT | | = 4327 | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | TIFICATION: | | | | | | | | | | | | | | | | | |
| The Armame | The Armament Enhancement Initiative | ant Initia | tive (/ | (EI) is | a higf | (AEI) is a high priority program to improve the lethality of the Abrams M1A1 tank fleet by | progr | am to | impro | ve th | e leth | ality (| of the | Abram | S M1 | 41 tan | k flee | ρ |
| improving the 120mm main armament ammunition and by modifying the fire control system via new ballistic solutions and reticle | 20mm main a | irmamer | the p | unition we | and A | oy modi | fying t | ne tire receiv | contri | olsys is mo | stem d in | via ne produ | w bal | istic se The | olutions | s and nition | reticie | les |
| will significantly improve kill ratios in actions such as Operation Desert Storm. | improve kill r | atios in | action | s such | as O | peration | Deser | t Stori | . E | This pr | rograr | n also | o inclu | des th | e upgi | program also includes the upgrade of the first | f the | first |
| 1629ea M1A1 gun mounts to the higher pressure (and higher muzzle velocity) AEI configuration (the balance of delivered gun | gun mounts to | o the hi | gher p | ressur | e (and | higher | muzzk | y veloc | oity) A | E | nfigur | ation | (the b | alance | of de | livered | gun t | ole it |
| mounts were supplied in this configuration for production). The Gun Mount upgrade is revisions are contracted and field retrofits to the tanks are completed by a Depot Team. | upplied in this ontracted and | contigu field ret | ration rofits t | tor pr o the | oductic tanks | n). In are corr | The Gun Mount upgrade is an FIA (Hock Island Arsenal) effort, helicie completed by a Depot Team. | Moun by a | r upgr Depot | Tear | n an | Y Y | YOCK YOU | siand | Arsens | arı) erric | בן. ה | eloli |
| | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | TUS / MAJOR DEV | /ELOPME | | MILESTONES: | .;; | | P | PLANNED | | | ACC | SOMP | ACCOMPLISHED | | | | | |
| | Preliminary Design Review | gn Reviev | > | • | | • | | 2091 | | | | Se ! | 3091 | | | | | - |
| | Critical Design Review | Review | | • | | | | 3091 | | | | 4 , | 4091 | | | | | _ |
| | Contractor Test & Eval | & Eval. | | • | | • | | 3091 | • | | | 4 , | 4091 | | | | | v |
| | Initial Operational Test & Eval | I Test & | Eval. | • | | • | | 4091 | | | | <u> </u> | 1092 | | | | | _ |
| | TDP Available | | | • | | : | | 2Q92 | | | | 7 | 1092 | | | | | - |
| | | | | | | | | | | | | | 1. | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | | | |
| | Pr Yr | FY 1997 | | | FY 1998 | 866 | \dashv | Œ | FY 1999 | | 4 | " | FY 2000 | | | | 2001 | |
| dica | Totals 1 | 2 | 3 | 4 | 2 | 8 | 4 | - | 0 | е е | 4 | - | 2 | e | 4 | 2 | က | 4 |
| Outputs | 4177 38 | 38 | 37 37 | _ | | | _ | | | _ | _ | _ | | | | | | |
| | FY 2002 | 2 | _ | F | FY 2003 | | | FY 2004 | | | Į. | FY 2005 | | | 2 | | | Totals |
| | 1 2 | 8 | 4 | 1 2 | 3 | 4 | 1 | 2 | 3 | 4 | - | 2 | 3 | Α | Complete | | | |
| Inputs Outputs | | | | | | | | | | | | | | | | | | 4327 4327 |
| METHOD OF IMPLEMENTATION: See Description | MENTATION: See | Descriptie | LC. | ADMIN | ISTRAT | ADMINISTRATIVE LEADTIME: | TIME: | A/N | Months | hs | PRC | DUCT | ON LEA | PRODUCTION LEADTIME: N/A | N/A | Months | | |
| Contract Dates: | Œ 0 | FY 1997 EV 1007 | Y | | | FY 1998 EV 1008 | < < < < < < < < < < < < < < < < < < < | e - | | | FY 1999 FY 1999 | FY 1999 FY 1999 | 4 4 2 2 | | | | | |
| Delivery Date. | | 1001 | 7 | | | 200 | | | | | | | | | | | | |

| | | | | | ſ | NDIVIDI | IAL MO | INDIVIDUAL MODIFICATION | NO | | | | | | | Date | | Febru | February 1998 | |
|--|------|-----------|--------------|---------|-------|---------------------|--------------|-------------------------|--------------|----------------------------|--------|---|-----|---------|-----|---------|-----|------------|---------------|-------|
| MODIFICATION TITLE (Cont): | | ¥ | Armament Ent | nt Enh | ancen | ancement Initiative | tiative | | [MOD | (AEI) [MOD 4] 1-89-05-4226 | 9-02-4 | 226 | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | 2 | EV 4006 | _ | | | | | | | | | | | | | | | | 9 | 0 |
| | and | and Prior | FY | FY 1997 | ÍL. | FY 1998 | Ē | FY 1999 | FY | FY 2000 | FΥ | FY 2001 | FY | FY 2002 | FY | FY 2003 | | 7 <u>C</u> | 10 | TOTAL |
| | Qty | \$ | άţ | 49 | Qty | \$ | äç | \$ | Qt | 49 | Qty | s | Qty | 69 | Qty | 49 | Qty | \$ | Qt | 49 |
| RDT&E PROCUREMENT Kit Quantity Installation Kits | 4327 | | | | | | | | | | | | | | | | | | 4327 | |
| Installation Kits, Nonrecurring Equipment | | 26.4 | | | | | | | | | | | | | | | | | | 26.4 |
| Engineering Change Orders | | | | | | | | | | | | | | | | | | | | |
| Data (In - House Support) Training Equipment | | 3.2 | | | | | | | | | | | | | | | | | | 3.2 |
| Support Equipment Other (Gun Mount Rebuild) | | 15.2 | | | | | | | | | | *************************************** | | | | | | | | 15.2 |
| menim contractor support | | | | | | | | . | | | | | | | | | | | | |
| Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2002 Eqpt Kits FY 2002 Eqpt Kits TC Equip-Kits | 4177 | 6 | | | 4 | | | | | | | | | | | | | | 4327 | |
| Total Installment | 4177 | 15.3 | 120 | 0 | 4 | 1 | \downarrow | \downarrow | \downarrow | | | | | | | | | | 4327 | |
| Total Procurement Cost | | 60.1 | | 0 | 4. | | 4 | | | | | | | | | | | | | 60.5 |

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| | | | l | | | NDIV | INDIVIDUAL MODIFICATION | MODIFI | CATIO | | | | | | | | Date | | February 1998 | y 1998 | |
|--|---------------------------------|---------|---------------|----------------|---------------|-------------|--------------------------|----------|-----------|---------|--------------|------------|----------|----------|-------------|----------------------|----------|----------|---------------|---|-------|
| MODIFICATION TITLE: | Precision Lightweight G | on Lig | htwei | Ħ G | PS R | PS Receiver | | (PLGR) | [MOD | 5] | 1-92-05-4417 | 5-441 | 7 | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: M1 = 0, | IS AFFECTE | D: M | 0 = | IPM1 | 1 = 0, | M1A1 | ,1 = 4327, | 1 | M1A2 = | 0 | ٩ | TOTAL ROMT | aMT = | - 4327ea | 38 | | | | | | |
| DESCRIPTION / JUSTIFICATION: | IFICATION: | | | | | | | | | | | | | | | | | | | | |
| The Precision Lightweight GPS Receiver (PLGR) is a self-contained locater unit which can collect and process GPS | Lightwei | ght G | PS F | eceiv | er (P | LGR) | is a | self - c | ontail | hed to | cater /D/ | ≔ | which | can | collec | and x | proce | ess Gl | PS sa | which can collect and process GPS satellite | 9 |
| Kit only. PLGR units were procured and provided to PM Abrams by PM GPS. | Tunits we | ere pr | ocure | d an | d pro | vided | to PA | A Abra | y all | y PN | 1 GPS | | <u> </u> | 5 | <u> </u> | 2 | <u>.</u> | ב ב | | Stallallo | = |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES | TUS / MAJO | R DEVE | HOPN | ENT | IILEST | ONES: | | | Ы | LANNE | ED | | | ACCC | ACCOMPLISHE | SHED | | | | | |
| | Preliminary Design Review | Design | n Revie | × | | | | • | | 2Q91 | - | | | | 2091 | _ | | | | | • |
| | Critical Design Review | sign Re | view | | | , | 1 | , | , | 4091 | _ | | | | 4091 | _ | | | | | |
| | Contractor Test & Eval. | Test & | Eval. | | | • | • | , | | 3093 | စ္ | | | | 4093 | e | | : | Delayed by | d by | |
| | Development Test & Eval. | nt Test | & Ev | - ë | | • | • | • | | 1094 | 4 | | | | 3094 | 4 | | _ | continuing | guir | |
| | Initial Operational Test & Eval | ational | Test & | Eval. | | | • | | | 4Q94 | 4 | | | | 1095 | 2 | | _ | EMI p | EMI problems | Ø |
| | IPR Production Decision | ction D | əcision | | | | | | | 4Q94 | 4 1 | | | | 2095 | ις. | | | | | |
| | TDP Available | elqi | | | | ; | : | • | | 203/ | | | | | | | | | | | |
| Installation Schedule: | ; | | | | \mid | | | | - | | 3 | | | | | | | | | 3 | |
| | Pr Yr Totale | - | ۲۲ ۲۹97 اد | 6 | 4 | - | 21998 | 200 | +₹ | - | FY 1999 | 6 E | 4 | 7 | 2000 | 000 | 4 | - | FY 2001 | 500 | 4 |
| Inputs | 38 | + | 1 | , | + | + | - | 5 | \dagger | | 200 | 20 | 20 | 20 | 22 | 25 | 2 | . 53 | 20 | 20 | 20 |
| Outputs | 38 | _ | - | \dashv | \dashv | \dashv | \dashv | \dashv | \dashv | | 20 | 20 | 20 | 20 | 20 | | | 20 | 20 | 20 | 50 |
| | | | | - | | | , | ŀ | | | | | | | | | | Ī | | | |
| | _ | FY 2002 | ŀ | + | - | FY 2003 | - 1 | 1 | | FY 2004 | | 1 | Ì | FY 2005 | - 1 | | | 0 | | Ξ | otals |
| | - | 7 | က | 4 | - | 7 | ဧ | 4 | = | 7 | က | 4 | = | 2 | က | 4 | Ŝ | Complete | | | |
| Inputs | | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | - 10-0 | | | | | | | | 3289 | | | 4327 |
| Outputs | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 50 | 22 | | | | | | | | | 3289 | | | 4327 |
| METHOD OF IMPLEMENTATION: Depot Field Team | ENTATION: | Depot | Field | Team | | SINIMO | ADMINISTRATIVE LEADTIME: | ELEAG | TIME: | | 2 | Months | | PRODU | CTION | PRODUCTION LEADTIME: | riME: | 5 | Months | | |
| Contract Dates: | | Ŧ | FY 1997 | | | | Ĺ | FY 1998 | ₹ | | | | | FY 1999 | | | 6 | | | | |
| Delivery Date: | | Ĭ. | FY 1997 | | | | Ĺ | FY 1998 | 7 | JAN 99 | | | | FY 1999 | | DEC 3 | 66 | | | | |
| | | | | | | | | ١ | l | | | | | | | | | | | | |

| | | | | | 4 | INDIVIDUAL MODIFICATION | L MODII | -ICATIO | 7 | | | | | | ã | Date | | February 1998 | y 1998 | |
|----------------------------------|---------|--------------|--------|-------------------|--------|-------------------------|---------|---------|--|---------|-----|--------------|--------|-----|---------|------|------|---------------|--------|------|
| MODIFICATION TITLE (Cont): | | ڇّ | ecisio | Precision Lightwe | weight | ight GPS Receiver | eceiver | (PLGR) | | [MOD 5] | | 1-92-05-4417 | 117 | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | | | | | | | | | | | | | | | | | 2 | | | |
| | FY 1996 | 996 Julor | | EV 4007 | 2 | EV 1000 | EV 4000 | 000 | 2000 | 9 | - N | Š | V 2000 | 9 | EV 2000 | 5 | F | | TOTAL | |
| | Q V | 8 | ð | \$ | Š | \$ | ŏ | 600 | \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 3 49 | O V | - 69 | Z A | 89 | 100 | 3 49 | 20 | 69 | 20 | 4 |
| RDT&E | | | | | | | | | | - | | | | | | | | | | |
| PROCUREMENT | | | | | | | | | | | | | | | | | | | | |
| Kit Quantity | 38 | | | | 200 | | 200 | | 200 | | 500 | | 200 | | 200 | | 3089 | | 4327 | |
| Installation Kits | | 0.1 | | | - | 0.5 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | 10.0 | | 13.1 |
| Installation Kits, Nonrecurring | | | | | | | | | | • | | | | | | | | | | |
| Equipment | | | | | | | | | | | | | | | | | | | | |
| Equipment, Nonrecuring | | | | | | | | | | | | | | | | | | | | |
| Engineering Change Orders | | 0.1 | | | | | | | | | | | | | | | | | | 0.1 |
| Data | | | | | | | | | | , | | | | | | | | | | |
| Training Equipment | | | | | | | | | | | | | | | | | | | | |
| O company | | | | | | | | | | | | | | | | | | | | |
| Support Equipment | | 3 | | | | | | | | | | | | | | | | | | , |
| Orner (benet Labs) | | - - | | | | | | | | | | | | | | | | | | 0.1 |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits | 88 | 0.1 | | | | | | | | | | | • | | | | | | 38 | 0.1 |
| FY 1997 Eqpt Kits | | | | | | | *** | | | | | | | | | | | | | |
| FY 1998 Eqpt Kits | | | | | | | 200 | 0.1 | | | | | | | | | | | 200 | 0.1 |
| FY 1999 Eqpt Kits | | | | | | | | | 200 | 0.1 | | | _ | | | | | | 200 | 0.1 |
| FY 2000 Eqpt kits | | | | | | | | | - | | 200 | 0.1 | | | | | | | 200 | 0.1 |
| FY 2001 Eqpt kits | | | | | | | _ | | | | | | 200 | 0.1 | | | | | 200 | 0.1 |
| FY 2002 Eqpt kits | | | | | | | - | | | | | | | | 200 | 0.1 | | | 200 | 0.1 |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | 200 | 0.1 | 200 | 0.1 |
| TC Equip 3089 Kits | | | | | | | | | | | | | | | | | 3089 | 3.3 | 3089 | 3.3 |
| Total Installment | 38 | 0.1 | | | | | 200 | 0.1 | 200 | 0.1 | 200 | 0.1 | 200 | 0.1 | 200 | 0.1 | 3289 | 3.4 | 4327 | 4.0 |
| Total Procurement Cost | | 0.4 | | | | 0.5 | | 9.0 | | 9.0 | | 9.0 | | 9.0 | | 9.0 | | 13.4 | | 17.3 |
| | | | | | | | | | | | | | | | | | | | | |

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| | | | | | IQN | /IDUAL | INDIVIDUAL MODIFICATION | CATIO | _ | | l | | l | l | Date | L | | February 1998 | 866 | Γ |
|--|-------------------------|--------------------|-------------|---------|-----------------|----------|----------------------------------|----------|----------|------------|------------|-------|--------------------|-----------|----------------------------------|----------|-------|---------------|---------------------|--------|
| MODIFICATION TITLE: | E: Live Fire Category A | e Cateç | lory A | | FCA) [MOD | | 6] 1-89-05-4230 | 5-423 | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: | MS AFFECTE | D: M1 | ,0 = | IPM1 = | = 0, M | M1A1 = 4 | = 4327 , | M1A2 : | 0 = | F | TOTAL ROMT | | = 4327 | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | TIFICATION: | | | | | | | | | | | | | | | | | | | |
| Live Fire Category A consists of the following M1A1 Tank modifications: | yory A con | isists o | f the f | ollowin | g M1/ | 41 Ta | k mo | dificati | ous: | Ξ | Indep | enden | t Man | ual B | Independent Manual Blaster, [2.] | [5] | Driv | ers/L | Driver's / Loader's | ູ້ |
| Hatch Ballistic Rims, | Rims, [3.] | AFE. | AFES Wiring | ng Hai | ness | Ballist | Harness Ballistic Protection and | ection | and | 4 . | Drive i | 's Ha | ch Ich | itch P | Driver's Hatch Latch Mechanism. | ism. | Each | _ | ese | |
| modifications corrects a deficiency relating to tank survivability found during Live - Fire Testing. | orrects a c | leficienc | y rela | ting to | tank | Surviv | ability | found | durin | g Live | 9 - F | e Tes | ting. | These | These modifications are | ificatio | ns ar | | planned | |
| Tor concurrent procurement and installation as a portion of process of | procuremen | ir ario | mstalle | | <u>ح</u> الا | | | j S | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 10 11 | 0111 | | 1 | | OHIVOTOL III | | | ٥ | DI ANINE | 2 | | > | HOLIGMOODA | 10110 | 2 | | | | | |
| DEVELOPMENT STATOS / WASON DEVELOPMENT Design Design Design | Proliminary | Doelon f | OF MEN | | ONES | | , | <u>-</u> | 2080 | 3 | | cl | | 2080 |] | | | | | |
| | Critical Design Beview | Design F | Weller | | | | | | 1091 | · — | | | | 1091 | | | | | | |
| | Contractor Test & Eval. | Test & E | EX. | | • | | | | 4Q91 | _ | | | | 4091 | | | | | | |
| | IPR Production Decision | tion Deci | sion | | | • | , | | 2092 | · QI | | | | 2092 | | | | | | - |
| | TDP Available | ple | | | | | | , | 4092 | α | | | | 4Q92 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | | | | | |
| | Pr Yr | Ŧ | FY 1997 | | | FY 1998 | 86 | | | FY 1999 | 66 | | | FY 2000 | 0 | | | FY 2001 | 11 | |
| | Totals | 1 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | 1400 13 | 135 136 | 135 | 136 | 6 | 26 | 86 | 86 | 26 | 97 | 86 | 98 | 97 | 97 | 98 | 86 | 26 | 26 | 98 | 98 |
| Outputs | 1400 13 | 135 136 | 135 | 136 | 46 | 26 | 98 | 86 | 26 | 97 | 86 | 98 | 26 | 26 | 86 | 98 | 26 | 97 | 86 | 98 |
| | | | | | | | ł | | | | - | | | | \mathbf{l} | | - | | 1 | |
| | Ĺ | FY 2002 | | | FY 2003 | တ္ထ | | | FY 2004 | 4 | 1 | | FY 2005 | 2 | | | ° | | P | Totals |
| | 1 | 2 3 | 4 | - | 2 | ဇ | 4 | - | 2 | 3 | 4 | - | 2 | 3 | 4 | Complete | lete | | | |
| Inputs | | | | | 26 | 98 | 96 | 45 | | | | | | | | | | | | 4327 |
| Outputs | 97 8 | 96 26 | 98 | 97 | 97 | 98 | 98 | 45 | | | | | | | _ | | | | | 4327 |
| METHOD OF IMPLEMENTATION: Contr. Field Team | MENTATION: | Contr. F | eld Tea | | ADMINIS | STRATI | ADMINISTRATIVE LEADTIME | TIME: | | 2 | Months | ă i | SODOC | TION | PRODUCTION LEADTIME: | | 9 | Months | | |
| Contract Dates: | | FY 1997 EV 1997 | | JAN 97 | | ш и | FY 1998 FV 1998 | ≼ ≥ | JUN 98 | | | C G | FY 1999 FY 1999 | ö = | DEC 98 | | | | | |
| Dollydly Date. | | | | 200 | | | | | | | | | | | | l | l | l | | 1 |

| | | | | | Z | INDIVIDUAL MODIFICATION | MODIF- | -ICATIO | z | | | | | | _ | Date | | Februar | February 1998 | |
|---|---------|------|----------------------|--------|---------|---------------------------------------|---------------------------------------|---------|-----------------|---------|-----|---------|---------|-----|---------|------|------|---------|--------------------|-------------------|
| MODIFICATION TITLE (Cont): | | Liv | Live Fire Category A | Satego | | (LFCA) | GOM] | J 6] 1- | 6] 1-89-05-4230 | -4230 | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | | | | | | | | | | | | | | | | | | | | |
| | FY 1996 | 996 | EV 1007 | 700 | EV 1008 | 1 800 | EV 1000 | 000 | ΕV | EV 2000 | 2 | EV 2001 | EV 2002 | 600 | EV 2003 | 500 | Į. | , | TOTAL | - |
| | Qty | \$ | Oty | 8 | Qty | \$ | Ofy | \$ | οţ | \$ | Qiy | * | ð | 8 | ð | \$ | à | 89 | o Ago | |
| RDT&E PROCUREMENT Kit Quantity Installation Kits | 2110 | | 200 | | 390 | , , , , , , , , , , , , , , , , , , , | 390 | | 390 | | 390 | | 157 | | | | | | 4327 | |
| Equipment Equipment, Nonrecuring | | 9.6 | | 2. | | 1:2 | | 2.1 | | 1.2 | | 0.0 | | 0.4 | | | | • | | 16.9 |
| Engineering Change Orders Data Training Equipment | | | | | , | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | | |
| Support Equipment Other (In - House Spt) | | 0.1 | | | | | | | | | | | | | | | | | | 0.1 |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | - | | | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits | 1400 | 4.5 | 542 | 3.2 | 168 | 1.0 | 278 | 1.7 | | 1.7 | | | | | | | | | 2110 500 390 | 8.7 3.0 2.3 |
| FY 1999 Eqpt Kits FY 2000 Eqpt Kits | | | | | | | | | 112 | 9.0 | 278 | 1.8 | 278 | 1.8 | | | | | 390 | N N |
| FY 2001 Eqpt kits FY 2002 Eqpt kits | | | | | | | | | | | | | | 0.7 | 278 | 1.8 | . 45 | 0.3 | 390 | 1.0 |
| FY 2003 Eqpt kits TC Equip-Kits | | | | | | | | | | | | | | | | | | | | |
| Total Installment | 1400 | 4.5 | 542 | 3.2 | 330 | 2.3 | 390 | 2.3 | 390 | 2.3 | 390 | | 390 | 2.5 | 390 | 2.5 | 45 | 0.3 | 4327 | 22.3 |
| Total Procurement Cost | | 14.5 | | 5.3 | | 3.5 | | 3.5 | | 3.5 | | 3.3 | | 2.9 | | 2.5 | | 0.3 | | 39 |

| | | | INDIVIDUAL MODIFICATION Date | February 1998 |
|------------------------------|----------------------|----------|---|---------------|
| MODIFICATION TITLE: Bat | Battlefield Override | Override | e (BF/OR) [MOD 7] 1-89-05-4229 | |
| MODELS OF SYSTEMS AFFECTED: | CTED: | M1 = 0, | 0, IPM1 = 0, M1A1 = 4327, M1A2 = 81 TOTAL RQMT = 4408 | |
| DESCRIPTION / JUSTIFICATION: | CATION: | | | |

primary or back - up electrical system for operation. The purpose of BF/OR is to allow an Abrams Tank to extricate itself from the BF/OR is designed Battlefield Override (BF/OR) is a completely mechanical bypass of the mechanical fuel/engine/transmission controls requiring no takes priority over potential mechanical damage resulting from uncontrolled operation. This modification will significantly increase for use in combat situations only; has no peacetime recovery role and is based on the premise that crew / tank self recovery battlefield when normal fuel flow, engine control or transmission shifting have been lost through battle damage. crew / tank survivability in a combat environment.

| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | JOR DEVELOPMENT MILESTO | NES: | | | | PLANNED | ACCOMPLISHED | |
|--|---------------------------|------|---|---|---|---------|--------------|--|
| Prelimina | Preliminary Design Review | | į | ٠ | | 4091 | 4091 | |
| Critical D | Critical Design Review | | • | • | , | 1092 | 2092 | |
| Contracto | Contractor Test & Eval. | | · | ٠ | · | 2092 | 3092 | |
| Developm | Development Test & Eval. | | Ċ | • | • | 1093 | 3093 | |
| IPR Prod | IPR Production Decision | | , | • | • | 1093 | 3093 | |
| TDP Available | allable | | | • | , | 3Q94 | 1095 | |
| | | | | | | | | |
| Installation Schedule: | | | | | | | | |
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| Installation Schedule: | | | | | | | | | | | | | | | | | | | | | |
|---|---------|---------|-----------|--------|--------|--------------------------|---------|---------|-------|---------|---------|----------|-----|---------|----------------------|--------|------|----------|----------|-----|--------|
| | Pr Yr | | FY 1997 | 97 | - | | FY 1998 | 98 | | | FY 1999 | 666 | | | FY 2000 | 000 | | | FY 2001 | 001 | |
| | Totals | - | 2 | 3 | 4 | F | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | - | 2 | 3 | 4 |
| Inputs | 1421 | 114 | 115 | 114 | 115 | 84 | 83 | 83 | 83 | 223 | 222 | 222 | 222 | 84 | 83 | 83 | 83 | 84 | 83 | 83 | 83 |
| Outputs | 1421 | 114 | 115 | 114 | 115 | 84 | 83 | 83 | 83 | 223 | 222 | 222 | 222 | 84 | 83 | 83 | 83 | 84 | 83 | 83 | 83 |
| | | | | | | | | | | | | | | | | | | | | | |
| | | FY 2002 | 902 | | | FY 2003 | 33 | | | FY 2004 | 004 | | | FY 2005 | 900 | | | To | | Ė | Totals |
| | - | 2 | 3 | 4 | - | 2 | 3 | 4 | 1 | 2 | 3 | 4 | - | 2 | 3 | 4 | Cor | Complete | | | |
| Inputs | 84 | 83 | 83 | 83 | 11 | 77 | 77 | 77 | | | | | | | | | | | | | 4408 |
| Outputs | 84 | 83 | 83 | 83 | 77 | 77 | 77 | 77 | | | | | | | | | | | | | 4408 |
| METHOD OF IMPLEMENTATION: Depot Field Teams | ENTATIC | JA: Det | oot Field | 1 Team | | ADMINISTRATIVE LEADTIME: | TRATIL | /E LEA | DTIME | | 7 | 2 Months | | PRODU | PRODUCTION LEADTIME: | LEADT | IME: | 9 | 6 Months | | |
| Contract Dates: | | ı. | FY 1997 | 2 | AAY 97 | | Ĺ | FY 1998 | | MAY 98 | 8 | | | FY 1999 | | MAY 99 | • | | | | |
| Delivery Date: | | щ | FY 1997 | _ | 4OV 97 | _ | ĹL. | FY 1998 | | NOV 98 | 86 | | | FY 1999 | | NOV 99 | g | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

| | | | | | S | INDIVIDUAL MODIFICATION | MODIF | CATION | | | | | | | Date | fo fo | | February 1998 | 1998 | |
|----------------------------------|-----------|-------|----------|----------------------|---------|------------------------------|---------|----------------|---------|-----|---------|----------|---------|--------|---------|----------|-----|---------------|-------|------|
| MODIFICATION TITLE (Cont): | | Ba | tlefielo | Battlefield Override | | (BF/OR) [MOD 7] 1-89-05-4229 | [MOD | 7] 1-8 | 9-05-4 | 229 | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | 900 | ا ا | | | | | | | | | | | | | | | | | | |
| | and Prior | Prior | FY 1997 | 997 | FY 1998 | 866 | FY 1999 | 66 | FY 2000 | 8 | FY 2001 | 10 | FY 2002 | 22 | FY 2003 | 03 | 12 | | TOTAL | ٦ |
| | Oty | es | Qty | €9 | Qty | \$ | Qty | s | Qty | \$ | Qty | 69 | Qty | \$ | Qty | æ | Qty | €9 | Qty | 69 |
| RDT&E | | | | | | | | | | | | | | | | | - | | | |
| PROCUREMENT | 1070 | | 8 | A | 6 | A | - 6 | | 6 | | 6 | | 0 | | | | | | | |
| Installation Kits | 2435 | | 555 | | 25 | | 55 | | 255 | | 55 | | 800 | | | | | | 4408 | |
| Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Equipment | | 3.9 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | 0.3 | | | | | | 6.7 |
| Equipment, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Engineering Change Orders | | - | | | | | | | | | | | | | | | | *** | | 1.1 |
| Engineering / Testing | | 6. | | | | | • | | | | | | | | | | | | | 1.9 |
| Training Equipment | | | | | | | - | | | | | | | | | | | | | |
| Support Equipment | | | | | | | | | | | | | | | | | | | | |
| Other | | | | | | | | | - | | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
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| Company of notice later | | | | | | | | | | | | | | , | | | | | | |
| EV 1006 & Prior Foot - Kite | 1421 | ď | 458 | 00 | 223 | <u>«</u> | 203 | 0 | | | | | | | | | | | 2435 | 1 |
| TV 4003 F | 1 | 2 | | i | 3 | ? | 3 6 | 3 7 | | | | | | | | | | | 2 0 | |
| 7 1997 Edpt - Nis | | | | | | | 200 | | | | | | - | | | | | | 200 | . , |
| 11 1990 Edpt Nis | | | | | | | 25 | 1 . | 0 | (| | | | | | | | | 555 | 4 |
| FY 1999 Eqpt Kits | | | | | | | - | | 333 | 9.0 | | | | | | | | | 333 | 9.0 |
| FY 2000 Eqpt kits | | | | | | | | | | | 333 | 0.3 | | | | | · · | | 333 | 0.3 |
| FY 2001 Eqpt kits | | | | | | | | | | | | | 333 | 0.3 | | | | | 333 | 0.3 |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | 308 | 0.3 | | | 308 | 0.3 |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | 1 | + | | | - | + | + | | \top | | | | | | |
| Total Installment | 1421 | 6.8 | 458 | 2.2 | 333 | 1.6 | 888 | 3.7 | 333 | 9.0 | 333 | 0.3 | 333 | 0.3 | 308 | 0.3 | | | 4408 | 15.8 |
| Total Procurement Cost | | 13.7 | | 2.7 | | 2.1 | | 4.2 | | 1.1 | | 0.8 | | 9.0 | | 0.3 | | | | 25.5 |
| | | | | | | | | | | | | | | | | | | | | |

| | | | | | | NDIV | 'IDUAL | INDIVIDUAL MODIFICATION | ATION | | | | | | | Õ | Date | | February 1998 | 1998 | |
|---|---|----------------------|--------------------|-----------|---------|------------------------|---------|--------------------------|----------|----------|----------|--------|--------------------------------|---------|--------------|--------|----------|----------|---|------|--------|
| MODIFICATION TITLE: | | Live Fire Category B | atego | ry B | (LFCB) | | 18 GC | [MOD 8] 1-94-05-4481 | 5-448 | _ | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: | S AFFE | CTED: | Æ | M1 = 0, I | IPM1 = | o, | M1A1 = | 4327 , | M1A2 | = 84 | | TOTA | TOTAL ROMT | 11 | 4408 | | | | | | |
| DESCRIPTION / JUSTIFICATION: | IFICATION | :NC | | | | | | | | | | | | | | | | | | | |
| Live Fire Category B includes the foll | egory 1 | B incl | udes 1 | the for | llowing | owing individual modif | idual | .≌ | ations | t | dml [| roved | [1.] Improved Gunner's Station | er's (| Station | [2.] r | Smo | ke Ge | cations: [1.] Improved Gunner's Station [2.] Smoke Generator Fuel Each of these modifications corrects a vehicle deficiency found | Fue | _ |
| during Live Fire | Fire testing. These modification | J. T | lese r | nodific | ations | are | olanne | | concu | rrent | procui | remen | t and | appli | cation | as a | porti | on of | Block | , ơ | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | NS / MA | JOR DI | EVELO | MENT | | MILESTONES: | | | اها | PLANNED | ED . | | ▼ I | 000 | ACCOMPLISHED | HED | | | | | |
| | Critical Design Review IPR Production Decision | Design | Decision | _ = | | • • | | | | 4093 | ງຕ | | | | 4093 4093 | | | | | | |
| | Development Test & Eval. | ment T | est & | Eval. | | | , | • | | 1094 | 4 | | | | 1094 | | | | | | |
| | TDP Available | ailable | | | | • | | • | , | 2094 | 4 | | | | 4094 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Installation Schodule: | | | | | | | | | | | | | | | | | | | | | |
| | Pr Yr | | FY 1997 | 197 | | | FY 1998 | 86 | - | | FY 1999 | 96 | | | FY 2000 | 00 | | | FY 2001 | 101 | |
| | Totals | F | 2 | 3 | 4 | 1 | 2 | 3 | 4 | - | 2 | 3 | 4 | - | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | 2010 | 241 | 242 | 242 | 242 | 101 | 101 | 101 | 101 | 101 | 5 5 | 5 5 | 107 | 5 5 | 5 5 | 101 | 5 5 | 101 | 5 5 | 17 | Ş |
| Outputs | 1038 | 83 | 650 | 653 | 620 | 2 | 2 | 101 | 5 | 2 | 2 | 5 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | FY 2002 | 202 | | | FY 2003 | 03 | | | FY 2004 | 45 | | | FY 2005 | 05 | | | 70 | | F | Totals |
| | - | 2 | 3 | 4 | 1 | 2 | 3 | 4 | F | 2 | 3 | 4 | 1 | 2 | 3 | 4 | Con | Complete | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | | 4408 |
| Outputs | 101 | ē | 101 | ē | 95 | 92 | 94 | 94 | \dashv | \dashv | \dashv | - | - | 1 | | | | ٦ | | | 4408 |
| METHOD OF IMPLEMENTATION: Depot Field Teams | ENTATIC | ed :NC | pot Fiel | d Team. | | DMINIS | STRATI | ADMINISTRATIVE LEADTIME: | TIME: | | က | Months | OL Ĺ | RODU | NOITO. | Ų. | ij Ž, | ເດ | Months | | |
| Contract Dates: | | | FY 1997 EV 4007 | | JUL 9/ | | LU | FY 1998 | א ק | JUL 98 | | | LÚ | FY 1999 | | 20L 99 | | | - | | |
| Delivery Date: | | | 1881 | | 20.07 | | | 0661 | • | | | | | 200 | | | | | | | |

| India 1.058 1.6 1.05 1.14 404 0.6 0.6 404 0.6 0.6 404 0.6 0.6 404 0.6 0.6 404 0.6 0.6 404 0.6 0.6 404 0.6 | | | | | | Ž | INDIVIDUAL MODIFICATION | MODIF. | ICATION | _ | | | | | | ľ | Date | | February 1998 | / 1998 | |
|--|----------------------------------|------|-------|--------|--------|------|-------------------------|--------|---------------|---------|------|-------|--------------|------|-----|---------|------|---------|---------------|--------|-----|
| FY 1996 | MODIFICATION TITLE (Cont): | | Ľ | e Fire | Catego | ry B | (LFCB) | | 8] 1-6 | 94-05-4 | 4481 | | | | | | | | | | |
| And Palicy And Palicy S | FINANCIAL PLAN: (\$ in Millions) | L | 966 | | | | | | | | | | | | | | | | | | |
| Out | | and | Prior | FY 1 | 266 | FΥ | 866 | FY 1 | 666 | FY 20 | 300 | FY 20 | 100 | FY 2 | 200 | FY 2 | 500 | TC | | TOTAL | ږ |
| Nonrecurring nge Orders necurring mge Orders ent ent ent ent ent ent ent ent ent ent | | Qty | 69 | Ωţ | €9 | Qt | €9 | Ωţ | 69 | Ωtγ | ક્ક | οţ | 69 | Οţ | 69 | Q Çţ | 69 | QĮ V | 49 | Qty | 69 |
| Nonrecurring Port Supp | RDT&E PROCUREMENT | | | | | | | | | | | | | | | | | | | | |
| Tring 0.8 0.4 0.2 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 | Kit Quantity | 2010 | | 296 | | 404 | | 404 | | 404 | | 219 | _ | | | | | | | 4408 | |
| Dort | Installation Kits | | | | | | | | | | | | | | | | | | | | |
| Total 1056 1.6 952 1.4 404 0.6 404 0.6 404 0.6 404 0.6 404 0.7 378 0.7 | Installation Kits, Nonrecurring | | 0 | | Č | | Ġ | | 0 | | | | | | | | | | | | , |
| Trders Port 1 - Kfits 1058 1.6 952 1.4 404 0.6 404 0.6 159 0.2 245 0.4 159 0.3 245 0.4 159 0 | Equipment, Nonrecurring | | 9 | | ÷ | | 7.0 | | 7.0 | | y | | . | | | | | | | | 0 |
| 1- Kits 1058 1.6 952 1.4 404 0.6 404 0.6 159 0.2 245 0.4 159 0.3 245 0.4 159 0 | Engineering Change Orders | | | | | | | | | | | | | | | | | | | | |
| 1-Kits 1058 1.6 952 1.4 404 0.6 404 0.6 159 0.2 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0. | Data | | | | | | | | | | | | | | | | | | | | |
| 10-Kits 1058 1.6 952 1.4 404 0.6 404 0.6 159 0.2 245 0.4 159 0.3 245 0.4 159 0 | Training Equipment | | | | | | | | | | | | | | | | | | | | |
| 1-Kits 1058 1.6 952 1.4 404 0.6 404 0.6 159 0.2 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 245 0. | Support Equipment | | | | | | | | | | | | | | | | | | | | |
| 1-Kits 1058 1.6 952 1.4 404 0.6 404 0.6 159 0.2 245 0.4 159 0.2 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 245 0. | Other | | | | | | | | | | | | | | | | | | | | |
| 1-Kits 1058 1.6 952 1.4 404 0.6 404 0.6 159 0.2 245 0.4 159 0.3 245 0.4 159 0. | Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
| 1 Kits 1058 1.6 952 1.4 404 0.6 404 0.6 159 0.2 245 0.4 159 0.3 245 0.4 159 | | | | | | | | | | | | | | | | | | | | | |
| 1 Kits 1058 1.6 952 1.4 404 0.6 404 0.6 159 0.2 245 0.4 159 0.2 245 0.4 159 0.3 245 0.4 159 | | | | | | | | | | | | | | | | | | | | | |
| 1Kits 1058 1.6 952 1.4 404 0.6 404 0.6 159 0.2 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 245 0.4 245 0.4 245 0.4 245 0.4 245 0.4 245 0.4 245 0.4 245 0.5 245 0.4 245 0.5 245 0.4 245 0.5 245 0.4 245 0.5 245 0.4 245 0.5 245 0.4 245 0.5 245 0.4 245 0.5 245 0.4 245 0.5 245 0.4 245 0.5 245 0.4 245 0.5 245 0.4 245 0.5 245 0.4 245 0.5 245 0 | | | | | | | | | | | | | | | | | | | | | |
| 1 Kfts 1058 1.6 952 1.4 404 0.6 404 0.6 159 0.2 245 0.4 159 0.2 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 245 | | | | | | | | | | | | | | | | | | | | | |
| 1 - Kfts 1058 1.6 952 1.4 404 0.6 404 0.6 159 0.2 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.4 159 0.4 159 0.3 245 0.4 159 0.4 159 0.4 245 0.4 159 0.4 245 0.4 159 0.4 245 | | | | | | | | | | | | | | | | - | | | | | |
| rior Eqpt - Kits 1058 1.6 952 1.4 404 0.6 404 0.6 159 0.2 245 0.4 159 0.2 245 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 0.3 245 0.4 159 | Installation of Hardware | | | | | | | | | | | | | | | | | | | | |
| Nt Kits | FY 1996 & Prior Eqpt Kits | 1058 | | | | | | | | | | | | | | | | | | 2010 | 3.0 |
| of | FY 1997 Eqpt Kits | | | | | 404 | 9.0 | 404 | 9.0 | 159 | 0.2 | | | | | | | | | 296 | 1.4 |
| 11 - Kits | FY 1998 Eqpt Kits | | | | | | | | | 242 | 0.4 | 159 | 0.2 | - | | | | | | 404 | 9.0 |
| of t-kits tr-kits tr-kits tr-kits tr-kits ment Cost 245 0.4 159 219 219 219 219 219 219 219 219 219 21 | FY 1999 Eqpt Kits | | | | | | | | - | | | 245 | 0.4 | 159 | 0.3 | | | | | 404 | 0.7 |
| of kits of kits of kits ent noise 1058 1.6 952 1.4 404 0.6 404 0.6 404 0.6 404 0.7 0.7 0.7 0.7 | FY 2000 Eqpt kits | | | | | | | | | _ | | | | 245 | 4.0 | | 0.2 | | | 404 | 9.0 |
| of kits ent 1058 1.6 952 1.4 404 0.6 404 0.6 404 0.6 404 0.6 404 0.7 378 ment Cost 2.4 1.8 0.8 0.8 0.7 0.7 0.7 | FY 2001 Eqpt kits | | | | | | | | | | | | | | | 219 | 4.0 | | | 219 | 0.4 |
| of kfits ent 1058 1.6 952 1.4 404 0.6 404 0.6 404 0.6 404 0.6 404 0.7 378 ment Cost 2.4 1.8 0.8 0.8 0.7 0.7 0.7 | FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| ent 1058 1.6 952 1.4 404 0.6 404 0.6 404 0.6 404 0.7 378 ment Cost 2.4 1.8 0.8 0.8 0.8 0.7 0.7 | FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| 1058 1.6 952 1.4 404 0.6 404 0.6 404 0.6 404 0.6 404 0.7 378 2.4 1.8 0.8 0.8 0.7 0.7 0.7 0.7 | TC Equip-Kits | | | | | | | | | | | | | | | | | | | | |
| 2.4 1.8 0.8 0.8 0.7 0.7 | Total Installment | 1058 | 1.6 | | 1.4 | | 9.0 | 404 | 9.0 | 404 | 9.0 | 404 | 9.0 | 404 | 0.7 | 378 | 9.0 | | | 4408 | 6.7 |
| the state of the s | Total Procurement Cost | | 2.4 | | 1.8 | | 0.8 | | 0.8 | | 0.8 | | 0.7 | | 0.7 | | 9.0 | | | | 8.6 |

| | | | | | | S S | INI IAI | INDIVIDITAL MODIFICATION | CATIO | Z | | | | | | | Date | | February 1998 | 1998 | |
|--|---|--------------------|-------------------------------|-----------|--------|-------------|---------|---|-----------------|---------------|---------------|------------------|-------------------|------------------------|-----------------|--|--|----------|--------------------------|-----------------|--------------|
| MODIFICATION TITLE: | | r's Vie | Driver's Viewer Quick Release | uick F | 3elea | ' . | VQR) | (DVQR) [MOD 9] 1-92-05-4427 | 9] 1 | -92-0 | 5-4427 | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: | SAFFEC | TED: | Σ | M1 = 0, | IPM1 = | .0 = | | M1A1 = 4327, | | M1A2 = 181 | 181 | - | TOTAL ROMT = 4508 | ROMT | = 4508 | | | | | | |
| DESCRIPTION / JUSTIFICATION: | FICATION | ä | | | | | | | | | | | | ļ. | | | | | | | |
| The Driver's Night Viewer Quick Release (DVQR) is a modification to the Driver's Night Viewer Periscope Retainer. | light Vi | ewer | Quick | Rele | ase (| DVOF | si (s | pom t | ficatio | in to t | he Dr | iver's | Night, | View | er Pe | riscop | e Reta | ainer. | | It Provides | s s |
| more positive locking teature which will preclude inadvertent release of the periscope from its operating position. Its primary and position is primary as he primary as he have as the driver's way as he | king te | eature he Vi | which | Peris | preci | from I | falling | precide inadvertent release of the cope from falling into the driver's lan | elease he dr | or tr | ne pe lapw | riscop rhen i | tis m | n its | operal out c | of the parties of the | periscope from its operating position. when it is moved out of the driver's | s way | its primary way as he | iry he exits | its |
| the vehicle precluding injury to the driver as well as damage to the periscope. Because of its potential importance in | uding in | njury | to the | drive | er as | well | as da | mage | to the | peri | scope | Be | cause | of its | bote: | ntial i | mporta | nce ii | n eme | emergency | ۶, |
| driver egress this modification has a secondary safety designation. It is however, primarily an operational Improvement. | s modif | icatio | n has | a se | conda | ry saf | ety d | əsignat | ion. | <u>=</u> | hower | /er, pi | rimaril | y an | operal | ional | Impro | /emen | L | | |
| | | | | | | | | • | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | US / MAJ | OR DE | VELOF | | | MILESTONES: | ,, | | | PLANNED | | | | ACCOMPLISHED | MPL | SHED SHED | | | | | |
| | Critical Design Review | esign | Review | | | | • | | | 4093 | 8 2 | | | | 4093 | _ | | | | | |
| | Development Test & Eval. IPB Production Decision | nent 14 Iuction | BST & L | rai. | | | | | | 30.94 4.05 | ‡ 7 | | | | 3094 | | | | | | |
| • | TDP Available | ulable | | | | , | • | 1 | | 4094 | 94 | | | | 4094 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | | | | | | |
| | Pr Yr | | FY 1997 | 26 | | | FY 1998 | 398 | | | FY 1999 | 399 | П | | FY 2000 | 000 | | | FY 2001 | 100 | |
| | Totals | = | 2 | 9 | 4 | F | 2 | 9 | 4 | - | 2 | 3 | 4 | F | 2 | 3 | 4 | 7 | 2 | 3 | 4 |
| Inputs | 1505 | 227 | 228 | 228 | 228 | 261 | 261 | 262 228 | 262 | 261 | 261 | 262 | 262 | 261 | 261 | 262 | 262 | | | | |
| Sinding | 3 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | |
| | | FY 2002 | 202 | | | FY 2003 | 203 | | | FY 2004 | 304 | | | FY 2005 | 005 | | | -To | | | Totals |
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 7 | 3 | 4 | - | 2 | 3 | 4 | Con | Complete | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | | 4508 4508 |
| outputs To continue | | | i | - | 1 | | TAGE | 1 2 2 | DTIME | | 1 | 10mths | | BEODI ICTION EADTIME | - NOIFO | I V | NAG. | 1 | Acretic | | |
| METHOD OF IMPLEMENTATION: Depot Field Teams Contract Dates: FY 1997 OC | O A IO | Б Б Г | ерот F1еіс FY 1997 | leam C | 0 TC | N N N | HY. | ADMINISTRATIVE LEADTIME: 6 FY 1998 O | E C | 5 8 | N | Monms | • - | FY 1999 | | OCT 98 | i | 9 | | | |
| Delivery Date: | | ۱ | FY 1997 | ١ | DEC 36 | ٳ | | FY 1998 | ١ | DEC 97 | | | | 888 11 | ١ | DEC 30 | | | ۱ | | |

| Γ | | | T | Τ | 0.5 | 0.0 0.0 0.0 0.0 | 0.8 | 1.3 |
|-------------------------|----------------------------|----------------------------------|----------------------|------|---|--|-------------------|------------------------|
| | | | TOTAL | €9 | | | | Ц |
| February 1998 | | | 10 | Š | 4508 | 1505 911 1046 1046 | 4508 | |
| Februe | | 0 | 10 | 8 | | | | |
| | | | | λįσ | | | | |
| Date | | | FY 2003 | 8 | | | | |
| | | | ΕY | ģ | | | | |
| | | | FY 2002 | €9 | | | | |
| | | | ΕY | Öţ | | | | |
| | 127 | | FY 2001 | s | | | | |
| | 9] 1-92-05-4427 | | FY | Oţć. | | | | |
| | | | FY 2000 | 49 | | 0.2 | 0.5 | 0.2 |
| NO | [MOD | | FΥ | à | | 1046 | 1046 | |
| FICATIO | (DVQR) | | FY 1999 | €9 | 0.1 | 0.2 | | 0.3 |
| IL MOD | | | F | ð | | 1046 | 1046 | |
| INDIVIDUAL MODIFICATION | Quick Release | | FY 1998 | 69 | 0.1 | 0.2 | 0.5 | 0.3 |
| Z | Quick | | F | ģ | | 16 | 911 | |
| | /iewer | | FY 1997 | 69 | 0.1 | | | 0.2 |
| | Driver's Viewer | - | ¥ | ğ | | 720 | 720 | |
| | ū | 9 | RY 1996 and Prior | ↔ | 0 0 | | 0.1 | 0.3 |
| | | L | and T | ģ | 1505 | 785 | 785 | |
| | MODIFICATION TITLE (Cont): | FINANCIAL PLAN; (\$ in Millions) | | | RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support | Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2003 Eqpt Kits TY 2003 Eqpt Kits | Total Installment | Total Procurement Cost |

| NDINIONI | INDIVIDUAL MODIFICATION | | Date | February 1998 |
|--|-----------------------------------|-------------------|------|---------------|
| MODIFICATION TITLE: Pulse - Jet System (PJS) [MOD 10] 1-92-05-4475 | 1-92-05-4475 | | | |
| | IPM1 = 0, M1A1 = 4327, M1A2 = 228 | TOTAL ROMT = 4555 | - | |
| DESCRIPTION / JUSTIFICATION: | | | | |

NOTE: 180ea additional PJS Kits were procurred using FY97 DBOF OSCR (O result is improved combat performance and reduced O&S costs. PJS was identified as user priority number one by Abrams tank units involved in Operation Desert Storm (ODS). NOTE: 180ea additional PJS Kits were procurred using FY97 DBOF OSCR (& S Cost Rediction) funds. This procurement is NOT a part of the Abrams tank MOD Line procurements but the 180 are being broken in order to complete the service. PJS greatly reduces the number of times the clean air path requires servicing. The The Pulse - Jet System (PJS) replaces a large portion of the current engine air filtration system. The purpose of PJS is to servicing in such an environment which can introduce dust into the clean air path as each servicing requires that the path is extend the time between required air path servicing in any severe dust environment. The current system requires frequent installed using MOD Line \$\$\$, thus total procured will be 180 less than the total installed.

| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | TUS / MA | JOR D | EVELOP | MENT | MILES | MILESTONES: | | | 0.1 | PLANNED | <u> </u> | | Ā | ACCOMPLISHED | PLIS | 印 | | | | | |
|---|----------------------------------|-------------|----------|-------|--------|-------------|--------------------------|---------|--------|---------|----------|--------|----|---------------------|---------|----------------------|----------|--------|---------|-----|--------|
| | Preliminary Design Review | ary Des | sign Rev | /lew | | : | • | • | | 2Q92 | 01 | | | 8 | 2092 | | | | | | |
| | Critical Design Review | Design | Review | | | | • | 1 | | 303 | 01 | | | ဗ | 392 | | | | | | |
| | Contractor Test & Eval. | tor Test | & Eva | | | • | | • | | 303 | ~ | | | ဗ | 293 | | | | | | |
| | Development Test & Eval. | ment T | est & E | val. | | , | • | | | 3093 | m | | | ဗ | 3093 | | | | | | |
| | Initial Operational Test & Eval. | peration | nal Test | & Eva | | • | 1 | • | | 4Q9 | m | | | 4 | 93 | | | | | | |
| | IPR Production Decision | duction | Decisio | = | | • | | | | 4Q9 | m | | | 4 | 93 | | | | | | |
| | TDP Available | ailable | | | | • | • | | * | 2Q96 | " | | | X | 2096 | | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | | | | | | |
| | Pr Yr | | FY 1997 | 97 | - | | FY 1998 | 98 | H | | FY 1999 | 6 | | | FY 2000 | 0 | | | FY 2001 | 001 | |
| | Totals | - | 2 | 8 | 4 | = | 2 | 8 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | 543 | 36 | 36 | 36 | 36 | 36 | 6 | | | | | | | | | | | | | | |
| Outputs | 17 | 22 | 22 | 22 | 22 | 45 | 45 | 45 | 45 | 75 | 75 | 74 | 74 | 74 | 74 | 41 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | FY 2002 | 202 | _ | | FY 2003 | 93 | | | FY 2004 | 4 | | | FY 2005 | 5 | | | To | | | Totals |
| | - | 2 | 3 | 4 | - | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | Complete | olete | | | |
| Inputs | | | | | | | | | | | | | | | | | | 3643 | | | 4375 |
| Outputs | | | | | | | _ | | | | | | | | | | ., | 3643 | | | 4555 |
| METHOD OF IMPLEMENTATION: Contractor Team | MENTATION | S S S | ntractor | Teams | | DMINIS | ADMINISTRATIVE LEADTIME: | /E LEAI | DTIME: | | 3 W | Months | М | SODUC | TION L | PRODUCTION LEADTIME: | 辿 | 8 N | Months | | |
| Contract Dates: | | _ | FY 1997 | | DEC 97 | | ш | FY 1998 | ш | FEB 98 | | | Ĺ | FY 1999 | ï | FEB 99 | | | | | |
| Delivery Date: | | _ | FY 1997 | • | APR 98 | _ | L | FY 1998 | 0 | OCT 98 | | | ÍL | FY 1999 | ŏ | OCT 99 | | | | | |

| | | | | | Š | INDIVIDUAL MODIFICATION | 252 | | | | | | | | | Date | | 100100 | recruary 1996 | |
|---|-----------|-------------------|---------|--------------------|---------|-------------------------|-----------------------|--------|---------|--------|---------|-----|----|----------------|---|---------|------|--------|---------------|--------------------|
| MODIFICATION TITLE (Cont): | | Pul | se - Je | Pulse - Jet System | (PJS) m | | [MOD 10] 1-92-05-4475 |] 1-92 | -05-44 | 75 | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | FY 1996 | 960 | | | | | | | | | | | | | | | | 4 | | |
| | and Prior | rior | FY 1997 | 766 | FY 1998 | H | FY 1999 | 66 | FY 2000 | 8 | FY 2001 | 100 | Ε¥ | FY 2002 | | FY 2003 | | 10 | TOTAL | AL |
| בירום | Ş O | 9 | È | 6 9 |) O | 5 9 | È | ₽ | È | 69 | È | 69 | È | ₩ 9 | ŝ | 6-9 | ŝ | 69 | À | 69 |
| PROCUREMENT Kit Quantity | 543 | | 144 | | 54 | | | | | | | | | | | | 3643 | | 4375 | |
| Installation Kits |) | | | | 2 | | | - | | | | | | | | | 3 | | 9 | |
| Installation Aits, Nonrecurring Equipment | | 24.6 | | 6.7 | | 2.1 | | | | | | | | | | | | 253.2 | | 286.6 |
| Equipment, Nonrecurring Engineering Change Orders Testing | | 0.6 1.0 0.9 | | | , | | | | | | | | | | | | | | | 0.6 1.0 0.9 |
| Iraining Equipment Support Equipment Other | | | | | | - | | | | | | | | | | | | | | |
| + 180ea Procurred with DBOF OSCR Funds. | | | | | | | | | | | | | | | | | | | | |
| ** 228 Installed in CY97 using | | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware FY 1996 & Prior Egnt Kits | 17 | 0 | 228 | : | 180 | 4 | 8 | o. | | | | | | | | | | | 543 | 4 |
| FY 1997 Eqpt Kits FY 1998 Fant Kits | ; | | | |] | | 4 8 4 8 | 2, 6 | 180 | ٠ د | | | | | | | | | 144 | . <u>τ</u> ίςία |
| FY 1999 Eqpt Kits | | | | | | | 3 | 3 | 3 | ? | | | | | | | | | 3 | 2 |
| FY 2000 Eqpt kits FY 2001 Eqpt kits | | | | - | | | | | - | | | | | | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2003 Eqpt kits TC Equip 3643 Kits | | | | | | | | | | | | | | | | | 3643 | 43.7 | 3643 | 43.7 |
| 틑 | 17 | 1.9 | 228 | | 180 | 1.4 | 598 | 2.4 | 189 | 1.5 | | | | | | | 3643 | Π | 4555 | H |
| Total Procurement Cost | | 29.0 | | 6.7 | | 3.5 | | 24 | | + | | | | | L | L | | 0 000 | | 0.076 |

| | | | ١ | | NDIN | DUAL M | INDIVIDUAL MODIFICATION | NOIL | | | | | | | Date | | Februs | February 1998 | |
|--|---------------------------------|----------------------|----------------|--------------|---------|---------------|---|------------|---------|---------|-------|------------|---------------|------------------------------------|----------------------------|--------------|--------|---------------|--------|
| | | | | | 1 | = | | | 2 | 9 | | | | | | | | | |
| MODIFICATION TITLE: | Mounted Water Hation | Water | Hation | неатег | | (MWHH) | MOD 11j1-92-05-4426 | 9-1 J T | 7-02-4 | 420 | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: | AFFECTED | | M1 = 0, | , IPM1 | .0 = | | M1A1 = 1501, | M1A2 = 0 | 0 = | | TOT/ | TOTAL ROMT | II | 1501 | | | | | |
| DESCRIPTION / JUSTIFICATION: | CATION: | | | | | | | | | | | | | | | | | | |
| The purpose of the Mounted Water Ration Heater (MWRH) is to provide the Abrams tank crew with the internal capability to | the Mou | unted V | Vater | Ration | Heate | r (M | /RH) is | to pr | ovide | the A | brams | tank | crew | with | the in | ternal | capab | ility to | 0 |
| heat water and rations during extended | ations du | ring ex | tended | field | operat | ions w | field operations without having to exit from the | having | to e | it fror | n the | prote | ction | of th | protection of the vehicle. | cle. | | | |
| NOTE: ATCOM / PM SOLDIER procured the MWRH. | PM SOL | DIER p | rocure | d the | MWR | | Abrams tank funds / data found herein are for the integration kit and | ank fu | nds / c | data fo | punc | herein | are | for th | e integ | gration | kit ar | ٦ | |
| installation only. Integration Kit is being fabricated by will also be by ANAD. | Integratic NAD. | on Kit | s bein | g fabr | icated | | Anniston Army Depot (ANAD) so there is no Hardware Contract. | Army | Depot | (ANA | D) SC | ther | is S | ю На | rdware | Contr | | Installation | ation |
| | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | S / MAJOR | DEVELO | PMENT | MILESTONES: | ONES: | | | PLA | PLANNED | | | ACC | OMP | ACCOMPLISHED | | | | | |
| ď | Preliminary Design Review | esign Re | view | | : | | | 4 | 4Q92 | | | | 4Q92 | ۸ı | | | | | |
| Õ | Critical Design Review | n Reviev | | | • | | | - | 1093 | | | | 1093 | m | | | | | |
| ŏ | Contractor Test & Eval. | est & Ev | . . | | • | • | | - | 1093 | | | | 1093 | m | | | | | |
| ă | Development Test & Eval. | Test & | Eval. | | | | | က | 3093 | | | | 3093 | m | | | | | |
| Ē | Initial Operational Test & Eval | onal Tes | t & Eva | - | • | | | က | 3093 | | | | 3093 | m | | | | | |
| <u>a</u> . | IPR Production Decision | on Decisi | 5 | | , | | | N | 2Q95 | | | | 4095 | ıO | | | | | |
| Д. | TDP Available | θ | | | • | | • | - | 1096 | | | | 1096 | <u></u> | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | | | | |
| ã | Pr Yr | FY 1997 | 397 | | | FY 1998 | 3 | | ΕY | FY 1999 | | | | FY 2000 | | | Ŧ | FY 2001 | |
| | Totals 1 | 2 | 3 | 4 | - | 2 | 8 | 4 | | 2 | e | 4 | | 2 | 8 | 4 | 2 | က | |
| Inputs Outputs | 187 | 187 | 188 | 188 | 188 | 188 | 188 | 187 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | FΥ | FY 2002 | | | FY 2003 | 9 | | Ŧ | FY 2004 | | | ٢ | FY 2005 | | _ | ^L | | | Totals |
| | 1 2 | 3 | 4 | 1 | 2 | 3 | 4 | - | 2 | 3 | 4 | | 2 | ၈ | 0 | Complete | | | |
| Inputs | | | | | | | | | | | | | | | | | | | 1501 |
| Outputs | | | 1 | 1 | | - | | - | | | | | | | | (| | | 3 |
| METHOD OF IMPLEMENTATION: Depot Teams Contract Dates: FY 1997 | TATION: D | Depot Tea FY 1997 | | | SINIMO | IRATIVE FY | ADMINISTRATIVE LEADTIME: FY 1998 N | ME: N A | m | Months | 2 | FY 1999 | 20CTIC 899 | PRODUCTION LEADTIME: FY 1999 N / A | DTIME: | m | Months | co. | |
| Delivery Date: | | FY 1997 | | W / W | | | 2881 1.1 | 4 /2 | | | ١ | | 666 | | | | | ١ | |

| | | | | | N | INDIVIDUAL MODIFICATION | MODIF | -ICATIO | Z | | | | | | | Date | | Februa | February 1998 | |
|----------------------------------|---------|------------|-------|-------------------|----------|-------------------------|----------|---------|------|-----------------------------|---------|-----|-------|---|---|---------|------|-----------|---------------|-----|
| MODIFICATION TITLE (Cont): | - | Ĭ | nuted | Mounted Water R | ati | ation Heater | (MW | (RH) | [MOD | (MWRH) [MOD 11]1-92-05-4426 | 12-05-4 | 426 | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | | | | | | | | | | | | | | | | | | | | |
| | FY 1996 | 966 | | 100 | | | | | | 9 | | | | | | 000 | Ì | [| | |
| | Otv \$ | 2 € | 20 | 1 1997 17 1997 | Otv \$ | 980 | Otv \$ | 888 | Z A | tv & | Oty | 3 8 | Otv S | 8 | ò | FT 2003 | 2 20 | 69 | OF OF | 8 |
| RDT&E PROCUREMENT | | | | | | | | | | | | | | | | | | | | |
| Kit Quantity | 1501 | | | | | | | | | | | | | | | | | | 1501 | |
| Installation Kits | | 1.9 | | | | 23-24 | | | | | | | | | | | | | | 1.9 |
| Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Equipment, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Engineering Change Orders | | | | | | | | | | | | | | | | | | | | |
| Data | | | | | | | | | | | | | | | | | | | | |
| Training Equipment | | | | | | | | | | | | | | | | | | | | |
| Support Equipment | | | | | | | | | | | | | | | | _ | | | | |
| Other | | | | | | | | | | | | | | | | _ | | | | |
| Interim Contractor Support | | | | | - | | _ | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | _ | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Installation of Hardward | | | | | | | | | | | | | | | | | | | | |
| FY 1996 & Prior Eapt Kits | | | 750 | 0.1 | 751 | 0.1 | | | | | | | | | | | | | 1501 | 0.5 |
| FY 1997 Eapt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 1998 Eapt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 1999 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 2000 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2001 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | | | | | | | | | | | | | | | |
| Total Installment | | | 750 | | 751 | 0.1 | | | | | | | | | | | | | 1501 | |
| Total Procurement Cost | | 1.9 | | 0.1 | | 0.1 | | | | | | | | | | | | | | 2.1 |
| | | | | | | | | | | | | | | | | | | | | |

| Exhibit P-3a Individual Modification | |
|--------------------------------------|--|
| | |

| | | | | | 2 | IVIDUA | INDIVIDUAL MODIFICATION | ICATIC | Z | | | | | | | Date | | 2 | February 1998 | _ | Γ |
|---|----------------------------|-----------------------|----------------|------------|----------|---------|--|---------|------------|------------------|---------|------------|----------------|----------------------------|--------------------------|------------------------------|----------|-----------|---------------|--------|-----|
| MODIFICATION TITLE: | System Enhancement P | - - - - - | semen | It Pack | ackage | (SEP) | [MOD 12] 1-96-05-4505 | 12] 1 | 0-96- | 5-450 | ည | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: | AFFECTED. | j. | Ž. | M1 = 0, I | IPM1 = | = 0, M1 | M1A1 = 0, | | M1A2 = 627 | 27 | - | TOTAL ROMT | ROM | н | 627 | | | | | | |
| DESCRIPTION / JUSTIFICATION: The System Enhancement Package (SEP) consists of M1A2 hardware and software changes which support the US Army's | FICATION: | ant Pe | ckage | (SE | 6 | sists (| M1A | 2 har | dware | and | softv | ware | | des 1 | which | oddns | nt the | NS / | \rmv's | | |
| "Digitization of the Battlefield" effort. This effort upgrades the M1A2 electronics suite with improved processors, increased me | e Battlefie | ld" ef | ort. | This e | offort L | pgrad | This effort upgrades the M1A2 electronics suite with improved processors, increased memory | MIA | 2 elec | stronic | ins su | ite w | ith in | prove | ed pr | ocesso | rs, inc | rease | d mer | nory | |
| second generation thermal imaging capabilities to the Commander's Independent Thermal Viewer (CITV) | thermal in | naging | capal capal | bilities | to the | Com | mande | r's Inc | depen | dent | Therr | lar l | liewe /iewe | 0 5 | TV) a | and Gunner's Primary Sight | nner's | Prima | ry Sigl | ţ, | |
| future growth without significant changes to the vehicle architecture so that insertion of future technological deficiency of the control of | designed hout signif | icant | chang | | the v | shicle | to the vehicle architecture so that insertion of future technology may be facilitated. These | cture | so th | se ri nat in: | sertion | n of | futur | syster e tech for is | ins. Inolog int in | yy may be facilitated. These | be fa | acilitate | 3d. T | hese | |
| Arms Command & Control Systems and funds will include installation costs. | & Control installatio | Syste | ontable | _ | ximize | comi | maximize commonality with other Ground Combat systems. | v with | othe | r Gre | pund | Com | oat s | ysterr | is. | For this effort procurement | effor | t proc | ureme | t E | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES | JS / MAJOR | DEVEL | DPMEN | IT MILE | STONE | Ġ | | | PLANNED | Œ) | | | AC | COMF | ACCOMPLISHED | ED | | | | | |
| | Preliminary Design Review | esign ! | Review | | • | , | 1 | | 3095 | 92 | | | | 3Q95 | 95 | | | | | | |
| _ | Critical Design Review | n Revie | WE | | 1 | • | | | 2097 | 26 | | | | 3097 | 26 | | | | | | |
| | Contractor Test & Eval. | est & E | val. | | • | | | | 3098 | 86 | | | | | | | | | | | |
| _ | Development Test & Eval. | Test & | Eval. | | • | | | | 1099 | 66 | | | | | | | | | | | |
| _ | Initial Operational Test & | ional Te | | Eval. | • | | | | 2Q99 | 66 | | | | | | | | | | | _ |
| | IPR Production Decision | on Dec | sion | | • | | | | 2099 | ල ල | | | | | | | | | | | |
| | TDP Available | | | | • | | | | 4099 | 66 | | | | | | | | | | | T |
| Installation Schedule: | | | | | | | | | | | | | - | | | | - | | | | |
| | Pr Yr | ٠ - | FY 1997 | _ | Ī | FY 1998 | 988 | 1 | - | FY 1999 | 999 | | 4 | - | FY 2000 | 6 | 4 | - | 17 2001 | 6 | 14 |
| Inputs Outputs | | | | | | | | | | | | | | | | | | | | 10 | 15 |
| | | | $ \ $ | | | | | | | | | | | | | | | | | | |
| | FY | FY 2002 | | | F | FY 2003 | 1 | Ì | FY 2004 | | | | " | FY 2005 | - 1 | 1 | | ၀ | | Totals | als |
| | 1 2 | | 4 | | | | 4 | = | 7 | ဧ | 4 | | _ | 7 | ၈ | 4 | Complete | 9 | | | |
| Inputs Outputs | 11 | = | 12 | 9 | 9 | 16 | 17 | | | | | | | | | | 4 | 492 | | | 627 |
| METHOD OF IMPLEMENTATION: Contractor Teams | NTATION: C | Sontrac | or Tea | us. | ADMIN | ISTRAT | ADMINISTRATIVE LEADTIME: | DTIME | | ٥ | Months | S | PRC | DUCT | ION LE | PRODUCTION LEADTIME: | 10 | Months | ths | | |
| Contract Dates: | | FY 1997 FY 1997 | 97 76 | 4 4 2 2 | | | FY 1998 FY 1998 | | 4 4 2 2 | | | | <u> </u> | FY 1999 FY 1999 | < < 2 2 | « « | | | | | |
| College Caro. | | | | | | | | ı | | | | | | | | | | | | | 7 |

| FINANCIAL PLAN. (\$ in Millions) FIVE STATES FIVE STA | | | | | | = | INDIVIDUAL MODIFICATION | AL MOD | 117711 | | | | | | | 2 | Date | | February 1998 | 1998 | |
|---|----------------------------------|------|-------|--------|-------|-------|-------------------------|--------|--------|-------|----------|--------|------|-----|------|-----|-------|-----|---------------|------|-------|
| PY 1986 and Prior Oly \$ Cly \$ | MODIFICATION TITLE (Cont): | | Sy | stem E | nhanc | emen | Packa | | EP) [| MOD | 12] 1-96 | -05-45 | 05 | | | | | | | | |
| Nonecuring Nonecu | FINANCIAL PLAN: (\$ in Millions) | | | | | | | | | | | | | | | | | | | | |
| And Prior 17 1997 17 1999 17 2000 17 2 | | FY 1 | 966 | | | | | | | | | | | | | | | | | | |
| Onnecurring Nonrecurring Nonrecurring Nonrecurring necurring | | and | Prior | À è | 1997 | ئا جُ | 1998 | i i | 1999 | Σ. Δ. | 5000 | FY 2 | 180 | FYZ | 200 | FYZ | 803 | | - 1 | TOT | |
| Nonrecurring Nonrecurring Nonrecurring nge Orders and and ovarie ovarie - Kils | RDT&E | Î | • | ŝ | • | 3 | • | 3 | 9 | 3 | • |) | • | | 9 | 3 | , | 3 | 9 | 3 | 9 |
| Turing 46.5 82.8 107.4 655.5 rders out the state of the s | FROCOREMEN! Kit Quantity | | | | | | | | | | | 52 | | 45 | | 65 | | 492 | | 627 | |
| ord ries 2.9 46.5 82.8 107.4 655.5 containing 2.9 46.5 82.8 107.4 655.5 containing 2.9 46.5 82.8 107.4 655.5 containing 2.9 46.5 82.8 107.4 655.5 containing 2.9 46.5 82.8 107.4 655.5 containing 2.9 46.5 82.8 107.4 655.5 containing 2.9 46.5 82.8 107.4 655.5 containing 2.9 46.5 82.8 107.4 655.5 containing 2.9 46.5 containing 2 | Installation Kits | | | | | | | | | | | 1 | | ! | | | | ! | | į | |
| Total Control | Installation Kits, Nonrecurring | | | | | | | | | | | | | - | | | | | | | |
| 10 ders 1 Kits 1 Kits 1 Kits 1 Kits 1 Kits 1 Kits 1 Kits 1 Kits 1 Kits 2 Kits 3 Kits 4 Kits 4 Kits 4 Kits 5 Kits 6 Kits 7 Kits 8 | Equipment | | | | | | | | | | | | 46.5 | | 82.8 | | 107.4 | • | 655.5 | | 892.2 |
| Kris 2.9 46.5 82.8 107.4 655.5 | Equipment, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Kils Kil | Engineering Change Orders | | | | | | | | | | 2.9 | | | | | | | | | - | 2.9 |
| 1 Kits 2.9 46.5 82.8 107.4 655.5 | Data | | | | | | | | | | | | | | | | | | | | |
| Kits | Training Equipment | | | | | | | | | | | | | | | | | | | • | |
| Kits | Support Equipment | | | | | | _ | | | | | -41-1 | | | | | | | | | |
| i Kits | Other | | | | | | | | | | | | | | | | | | | | |
| 1 Kits 1 Kits 2 Kits 2 Kits 3 Kits 4 K | Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
| 1 Kits 1 Kits 2 Kits 2 Kits 4 K | | | | | | | | | | | | | | | | | | | | | |
| Kits Kit | | | | | | | | | | | | -, | | | | | | | | | |
| Kils | | | | | | | | | | | | | | | | | | | | | |
| 1 Kits 1 Kits 2-9 46.5 82.8 107.4 655.5 | | | | | | | | | | | | | | | | | | | | | |
| 1 - Kits 1 - Kits 2 - Kits 3 - Kits 4 - Ki | | | | | | | | | | | | | | | | | | | | | |
| 1 Kits 1 Kits 2 Kits 3 Kits 4 K | | | | | | | | | | | | | | | | | | | | | |
| tr-Kits | Installation of nardware | | | | | | | | | | | | | | | | | | | | |
| ti – Kits ti – K | FY 1996 & Prior Eqpt Kits | • | | | | | | | | | | | | | | | | | | | |
| ti – Kits ti – K | FY 1997 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| tt - Kits | FY 1998 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| t kits t kits t kits t kits t kits t kits ment Cost | FY 1999 Eqpt Kits | | | | | | | | | | | | | | | *** | | | | | |
| t kits t kits t kits t kits ment Cost | FY 2000 Eqpt kits | | | | | | | | | | | | | - | | | | | | | |
| t kits t kits ment Cost | FY 2001 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| t kits ent ment Cost | FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| ent ment Cost 107.4 655.5 | FY 2003 Eqpt kits | | | | | | | | - | | | | | | | | | | | | |
| ent ment Cost 107.4 655.5 | TC Equip-Kits | | | | | | | | | | | | | | | | | | | | |
| 2.9 46.5 82.8 107.4 655.5 | Total Installment | | | | | L | | L | | | | | | | | | | | | | |
| | Total Procurement Cost | | | | | | | L | | | 2.9 | | 46.5 | | 82.8 | | 107.4 | | 655.5 | | 895.1 |

| | | ļ | ١ | | ı | | NODING MODIFICATION | MON | FICA | Z | ı | ı | ١ | | | ı | ١ | Oteo | ١ | Cobrusty 1000 | 900 | |
|---|---------------------------|----------------------------|-----------|--------|---------------|-----------|--|----------|----------|------------|--------------|---------|--------|---------|---------|--------------|----------------------|---|----------------|---------------|-------|--------|
| MODIFICATION TITLE: E | Embedded Battle Command | d Batt | e C | E | and | (EBC) | € | [MOD 13] | <u>@</u> | 1-96- | 1-96-05-4516 | 16 | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: | FECTED: | | | M1A2 | N | | | | | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: Embedded Battle Command (EBC) is each fielded M1A2 tank There is no | 1 ~ | nd (EBC) is There is no | Si (Si | | art o | 는 보이 되었다. | a part of Horizontal Battlefield Digitization (F | al B | attlefi | eld [|)igitiz | ation | # | | BC | is an | annu | EBC is an annual software "drop" into burpose of EBC is to assure that all | are " | drop" | into | |
| M1A2's have up - to - date and identical computer software with the latest State - of - the - Art changes installed on a regular basis. There is no delivery or installation schedule in the normal sense of these terms. Each fielded M1A2 will have its onboard | - date | and i | dentic | sal c | omp ule it | uter a | softwa | are w | ith tl | of tt | test nese | State | . of - | the - r | Art cl | hange M1/ | s inst \2 wil | - the - Art changes installed on a regular Each fielded M1A2 will have its onboard | a re its on | gular | basis | |
| computers upgraded every year. | every | year. | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: | MAJOR | EVELO | PME | ¥ | LEST | ONES | | | | PL | PLANNED | | | | 000 | MPLI | ACCOMPLISHED | | | | | |
| Preli | Preliminary Design Review | sign F | leview | | | | • | • | , | | 2097 | | | | ., \ | 3097 | | | | | | |
| | Critical Design Review | Hevie | ≥ : | | | | , | • | | , , | | | | | | 1000 | | | | | | |
| | Confidence les a Eval | 2 T | . E | | | • | • | • | , | • | | | | | | | | | | | | |
| Deve | Development Test & Eval. | rest or | St CVall. | Fval | | | | | | , , | 4098 | | | | | | | | | | | |
| HAI | PR Production Decision | n Deci | sion | | | | · | • | | ., | 2098 | | | | | | | | | | | |
| | | | | 1 | | | | | | | | | | | | | | | | | | |
| Installation Schedule: | | à | EV 1007 | | + | | FV 1998 | 800 | | | | FY 1999 | 9 | - | | FY 2000 | 000 | - | | FY 2001 | 5 | |
| Totals | 1 | 2 | | 3 | 4 | = | 2 | 33 | | 4 | - | 2 | 3 | 4 | 1 | 2 | 3 | 4 | - | 2 | 3 | 4 |
| Inputs N/A Outputs N/A | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | ł | | | | | | | | | | | | | | | | | |
| | FY 2002 | 2002 | | Ц | | FY 2003 | 83 | | | ĬL. | FY 2004 | | Н | | FY 2005 | 900 | | | 10 | | ۲ | Totals |
| | 1 2 | 3 | | 4 | - | 2 | 3 | 4 | · | | 2 | 3 | 4 | F | 2 | ဇ | 4 | Complete | plete | | | |
| Inputs N/A Outputs N/A | | | | | | | | | | | | | | - | | | | | | | | |
| METHOD OF IMPLEMENTATION: FIG Svc Rep Inst | NTION: FI | d Svc | Rep I | ust | 1 | MIN | ADMINISTRATIVE LEADTIME: | NE LE | ADTI | ij | | Ž | Months | | RODU | CTION | PRODUCTION LEADTIME: | rIME: | 8 | Months | | |
| Contract Dates: | | FY 1997 | 2 | A/N | ⋖ . | | | FY 1998 | œ (| 4 : 2 : | _ | | | ш. | FY 1999 | | 4 : | | | | | |
| Delivery Date: | | FY 1997 | _ | ۲ ک | ۲ | ١ | | FY 1998 | ۵ | ۲ ک | | | | ١ | FY 1888 | | 4 / 2 | | | | | |

Exhibit P-3a Individual Modification

| | | | | INDIVIDUAL MODIFICATION | IAL MOE | IFICATIO | Z | | | | | | Date | | Febru | February 1998 | |
|----------------------------------|---------|-------------------------|---------|-------------------------|---------|-----------------|---------|--------------|---------|-----|---------|----------------|-------------|-----|-------|---------------|-----|
| MODIFICATION TITLE (Cont): | Ü | Embedded Battle Command | attle C | ommanc | (EBC | (EBC) [MOD 13] | 1 | 1-96-05-4516 | -4516 | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | FY 1996 | _ | | | | | | | | | | | | | | | |
| | d Pri | 199 | | 199 | FY | FY 1999 | FY 2000 | Н | FY 2001 | H | FY 2002 | H | 7 200 | | TC | TOTAL | |
| | Oty \$ | Oty \$ | Qty | \$ | Qţ | \$ | Qty | \$ | Oty | €9 | Qty | \$ | Oty \$ | Qty | ₩. | Off | \$ |
| PROCUREMENT | | | | | | | | | | | | - | | | | | |
| Kit Quantity | | | | | | | | | · | | | - | | | | | |
| Installation Kits | | | | | | | | | | | | | • | | | | |
| Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | |
| Equipment | | | | | | | | | | | | _ | | | | | |
| Equipment, Nonrecurring | | | | | | | | | | | | - | | | | | |
| Engineering Change Orders | | | | | | | | | | | | | | | | | |
| Data (Software Only) | | | | | | | | 0. | | 0. | | - : | | 0. | 5.5 | 10 | 9.6 |
| Training Equipment | | | | | | | | | _ | | | | | | | | |
| Support Equipment | | | | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | | | | | | | | |
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| | | | | ··· | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits | | | | | | | | | | | | | | | | | |
| FY 1997 Eqpt Kits | | | | | | | | | | - | | | | | | | |
| FY 1998 Eqpt Kits | | | | | | | | | | | | | | | | | |
| FY 1999 Eqpt Kits | | | | | | | | | | | | | | | | | |
| FY 2000 Eqpt kits | | | | | | | _ | | | | | | | | | | |
| FY 2001 Eqpt kits | - | | | | | | | | • | | | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | | | | | | | | | | | | |
| Total Installment | | | | | | | | | | | | | | | | | |
| Total Procurement Cost | | | _ | | | | | 1.0 | | 1.0 | | 1.1 | | 1.0 | 5.5 | 2 | 9.6 |

| | | | l | l | l | MD | /IDOA | MOD | INDIVIDUAL MODIFICATION | NO | | | | | | | Date | | Febr | February 1998 | |
|--|----------------------------|-------------------|----------|--------------|--------|----------------|---------|--------------------|--------------------------|-----------------------|----------------|--------|-------|-------------------|------------------|---------------------------------------|----------------------|---|--------------|------------------|--------|
| MODIFICATION TITLE: | External Auxiliary Pwr | al Auxi | iary F | | ij | Jnit (EAPU) | ≥ | 9 | 4] 1-8 | [MOD 14] 1-85-05-4057 | 1057 | : | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: | AFFECTE | ö | ž | 0 = | IPM1 | IPM1 = 0, | 1 | M1A1 = 1836, | | M1A2 = 0 | 0 | | POTAL | TOTAL ROMT = 1836 | F = 18 | 36 | | | | 4 | |
| DESCRIPTION / JUSTIFICATION: | -ICATION: | | ı | | | | | | | | - | | Ì | | | | | | | | |
| The current use of the Abrams Tank in stationary night defensive position, known as Silent Watch Mode, requires long durat idling of the AGT - 1500 vehicle main engine in order to generate the required electricity. The External Auxiliary Power Unit | of the A | Vorams | מם מש | ਨ 'ਟ ਵ ਭੂ | Static | onary in or | r gr | r dete | insive | positi | on, k equir | nown | as : | Silent T× | watc | in Mo | de, rec Il Auxi | stationary night defensive position, known as Silent Watch Mode, requires long duration dine in order to generate the required electricity. The External Auxiliary Power Unit | iong ower | Juratio Unit | _ |
| (EAPU) will provide power for this type | ide powe | er for | this 1 | ype | of re | quirer | nent | at gr | eatly | reduce | on fue | Sn K | ige a | nd w | ithout | main | engin | of requirement at greatly reduced fuel usage and without main engine wear. The EAPU | ٠. ج | e EAF | Ď |
| continuously delivers 2.2 KW of power at 28 Volts DC. | vers 2.2 | KW o | wod , | er a | 28 | Volts | 2 | The | EAP | II will | be t | noun | ed in | the | left s | ide of | the t | The EAPU will be mounted in the left side of the turret bustle rack and | ustle | rack a | P ¢ |
| will be fully integrated with the tank electrical systems. hours on one tank-full of diesel fuel. The Army is proc | prated will use the second | in the of dies | sel fu | elect | he A | syst rmy is | proc | uring | an ad | o nas ditiona | 336 | EAPL | ls as | uppiy a rest | ario ilt of a | an FYS | 7 Con | ectrical systems. The EAPO has its own fluel supply and can provide power for 10 to 12. The Army is procuring an additional 336 EAPUs as a result of an FY97 Congressional plus-up. The | nal pl | us-up. | The |
| EAPU will be used with the M1A2s until they are retrofitted with SEP (including the Under Armor EAPU). | d with the | M1A2 | s unt | ii the | / are | retrof | itted v | vith S | EP (in | cludin | g the | Unde | r Arm | or EA | PU. | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | JS / MAJOF | A DEVE | LOPM | | ILEST | MILESTONES | | | | PLANNED | NED | | | AC | OMF | ACCOMPLISHED | | | | | |
| | Preliminary Design Review | Design | Revie | 3 | | | | | ٠ | z | A/N | * | | | | | | * | This | This is a re-buy | re-buy |
| | Critical Design Review | ign Rev | iew | | | | | | | Z | A/N | * | | | | | | | of a | of an item last | last |
| | Contractor Test & Eval. | Test & | Eval. | | | , | | | | Z | A/Z | * | | | | | | | proc | procured in FY | ۲۲ |
| | Development Test & Eval. | nt Test | & Eva | _; | | | | | , | Z | ۷, | * | | | | | | | 92. | | |
| | Initial Operational Test & | ational | Test & | Eval. | | | | | , | Z | 4 | * | | | | | | | | | |
| _ | IPR Production Decision | tion De | cision | | | | | | | Z | Α/ | * | | | | | | | | | |
| | TDP Avai | Available | | | | , | | | | ż | Y. | * | | | | | | | | | |
| Installation Schedule: | | | | | ŀ | | | | | | | | | | | | | | | | |
| | Pr Yr | Ή. | FY 1997 | - | 1 | İ | FY 1998 | - 1 | | | 占 | 666 | | 4 | " | FY 2000 | | | | 2001 | |
| | Totals | - | 7 | က | 4 | - | 2 5 | 3 | 4 | | 2 | | 8 | 4 | - | 7 | 8 | 4 | | 2 3 | 4 |
| Inputs Outputs | | | | | | | 36 | \$ 5 | 5 5 | 6 6 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | ĬL. | FY 2002 | | | | FY 2003 | 03 | | | FY 2 | FY 2004 | | Ц | ĬΨ | FY 2005 | | | To | 0 | | Totals |
| | - | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | | 4 | - | 2 | 3 | 4 | Complete | Φ | | |
| Inputs | | | | _ | | | | | | | | | 4 | | | | | 1164 | 4 | | 1500 |
| Outputs | | | _ | - | | - | | | | | | | | | _ | | | 1164 | 4 | | 1500 |
| METHOD OF IMPLEMENTATION: Contr./Depot Teams | NTATION: | Contr./I | Jepot 7 | eams | | DMINIS | STRAT | IVE LE | ADMINISTRATIVE LEADTIME: | : نن | 4 | Months | 2 | PRO | DUCT | ON LE | PRODUCTION LEADTIME: | 9 | Months | S | |
| Contract Dates: | | FY 1997 | 997 | SEP | SEP 97 | | | FY 1998 EV 1000 | 20 0 | 4 < | | | | FY 1999 | FY 1999 | < < < < < < < < < < < < < < < < < < < | | | | | |
| Delivery Date: | | | 166 | È | 90 11 | ١ | I | 199 | | | l | | | | 666 | | | | | | |

| MODIFICATION TITLE (Cont): | | Ш | ternal / | External Auxiliary Pwr Unit | / Pwr U | | APU) | [MOD | 14]1 | (EAPU) [MOD 14] 1-85-05-4057 | -4057 | | | | | | | | | |
|----------------------------------|---------|-----------|----------|-----------------------------|---------|-----|---------|------|---------|------------------------------|---------|-----|----|---------|------|---------|------|------|---------|------|
| FINANCIAL PLAN: (\$ in Millions) | FY 1996 | 966 | _ | | | | | | | | | | | | | | | | | |
| | and | and Prior | FY 1997 | 266 | FY 1998 | Н | FY 1999 | 66 | FY 2000 | 000 | FY 2001 | 100 | FΥ | FY 2002 | FY2 | FY 2003 | TC | | TOTAL | 1 |
| | αţ | €9 | αţ | €9 | Oty | 49 | οly | 49 | οţ | 8 | δ | 49 | αţ | 49 | Offy | 69 | Qt | 69 | Oty | 69 |
| RDI & E PROCUREMENT | | | | | | | | | | | | | | | | | | | | |
| Kit Quantity | | | 336 | 1 | | | | | | | | | | | | | 1164 | | 1500 | |
| Installation Kits | | | | | | | | | | | | | | | | | | | | |
| Installation Kits, Nonrecurring | | | | (| | | | - | | | | | | | | | | | | |
| Equipment | | | | D | | | | | | | | | | | | | | 32.6 | | 40.6 |
| Equipment, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Engineering Change Orders | | | | | | | • | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | · • | | | |
| I raining Equipment | | | | | | | | | | | | | | | | | | | | |
| Support Equipment | | | | | | | | , | | | | | | | | | | | | |
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| Interim Contractor Support | | | | | | | | | | | | | | _ | | | | | | |
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| or rigidware | | | | | | | | | | | | | | | | | | | | |
| LI 1990 & FILOI EUDI NIIS | | | | | | | | | | | | | | | | | | | | |
| FY 1997 Eqpt Kits | | | | | 336 | 2.0 | | | | | | | | | | | | | 336 | 2.0 |
| FY 1998 Eqpt Kits | | | | | | | | | | | - | | | | | | | | | |
| FY 1999 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 2000 Eqpt kits | | | | | | • | | | | | | | | | | | | | | |
| Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| Egot kits | | | | | | | | | | | • | | | | | | | | | |
| FY 2003 Eapt kits | | | | | | | | | | | | | | | | | | | ******* | |
| TC Equip 1164 Kits | | | | | | | | | | | | | | | | | 1164 | 8.2 | 1164 | 8.2 |
| Total Installment | | | | | 336 | 2.0 | | | | | | | | | | | 1164 | 8.2 | 1500 | 10.2 |
| Total Procurement Cost | | | | 0 | l | | | ĺ | | | | | | | | | | | | |

| Afodification | Modernoarion |
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| Individual | N N N N N N N N N N N N N N N N N N N |
| 40.0 | 200 |
| 17.77 | |
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|--|-----------------|----------------------------|------------|--------------|---------|--|-------------|-----------------------|---------|-------------------|---------|-------------------|--|-----------------------|---------------|---------------|--------|
| MODIFICATION TITLE: | | External Auxiliary Pwr | | Unit Upgrade | 1 | (EAPUU) [| MOD | [MOD 15] 1-97-05-4521 | 7-05-4 | 521 | | | | | | | |
| MODELS OF SYSTEMS AFFECTED | MS AFFECTE | | M1 = 0, IP | IPM1 = 0, | l . | M1A1 = 1500, | | M1A2 = 0 | 1 | TOTAL ROMT | - TMOF | = 1500 | | | | | |
| DESCRIPTION / JUSTIFICATION: | TIFICATION: | | | | | | | | | | | : | | - | | | |
| This modification is the Upgrade of 1500ea External Auxiliary Power Units (EAPU's) procured / fielded in FY units and a NATO in the second to the starter and a NATO in the second to th | ation is the | e Upgrade | of 1500 | ea Exte | ernal A | 500ea External Auxiliary Power Units (EAPU's) h a 24 volt starter, adds an improved voltage | Power | · Units | (EAPU | J's) pi ge rec | rocureo | / fielde and a | procured / fielded in FY91 / 94. regulator and a NATO standar | 791 / 94. standard | 4. The ard | Φ | |
| recepticle and remove the 24 volt battery. These changes will increase the reliability and durability of the existing | remove the | ne 24 volt | battery. | These | chang | es will | increa | se the | reliab | ility ar | nd dur | ability c | of the e | | EAPU's | ري ن | |
| Installation costs for this modification are included in the hardware cost and the prime hardware contractor will also install | ts for this | modificatio | n are in | papnic | in the | hardwa | re cos | t and | the pri | ime h | ardwar | e contr | actor w | ill also | instal | | |
| the modification. | د | | | | | | | | | | | | | | | | |
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| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | ATUS / MAJO | R DEVELOPA | | MILESTONES | | | PLA | ANNED | | | ACCOMPL | | SHED | | | | |
| | Preliminary | Preliminary Design Review | we | • | • | • | (·) | 3095 | | | (r) | 3095 | | | | | |
| | Critical Des | Critical Design Review | | • | 1 | | .4 | 2Q96 | | | C/I | 2096 | | | | | |
| | Contractor | Contractor Test & Eval. | | | • | | 4 | 4Q96 | | | 4 | 4096 | | | | | |
| | Initial Oper | Initial Operational Test & | & Eval. | • | | • | .4 | 2097 | | | cA . | 2097 | | | | | |
| | IPR Produk | IPR Production Decision | | • | • | • | 7 | 4097 | | | 4 | 4097 | | | | | |
| | T D P Available | llable | | • | • | | -4 | 2098 | | | | | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | | |
| | Pr Yr | FY 1997 | 7 | | FY 1998 | 98 | | FΥ | FY 1999 | | | FY 2000 | 00 | | FY | FY 2001 | |
| | Totals | 1 2 | 3 4 | - | 2 | 8 | | | 2 3 | 4 | - | 2 | 8 | 4 | 1 2 | 3 | Ì |
| Inputs | | | - | | | | 350 50 | | | | | | | | | | |
| Outputs | | | - | | | $\frac{1}{2}$ | × | ne/ ne/ | | | | - | | | | | |
| | | FY 2002 | | FY 2003 | 303 | H | Ē | FY 2004 | | | FY 2005 | 305 | \vdash | To | 0 | | Totals |
| | - | 2 3 | 4 | 2 | 3 | 4 | F | 2 | 3 4 | - | 2 | 3 | 4 | Complete | 0 | | |
| Inputs | | | | | | | | | | | | | | | | | 1500 |
| Outputs | | | - | | | | | | | | | 10110 | - 1 | | - | | 3 |
| METHOD OF IMPLEMENTATION: Contractor Inst. | MENTATION | : Contractor Ir | ist. A | ADMINI | STRATIV | ADMINISTRATIVE LEADTIME: | IME: N A | N | Months | (n | FY 1999 | | PRODUCTION LEADTIME: FY 1999 N / A | :: 4 | Months | က္ | |
| Delivery Date: | | FY 1997 | SUN | 86 | . Ĺ | FY 1998 | \ \ \ \ \ \ | | | | FY 1999 | | X / Z | | | | |
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| | | | | | INDIVIDUAL MODIFICATION | JAL MOL | JEICATK | Z | | | | | | | Date | | Februa | February 1998 | T |
|---|----------|--------------|-----------|--------|---|---------|---------|------|---------|---------|---------|------|---------|---|---------|--------|--------|---------------|-----|
| | u | xterr | lal Auxil | iary P | External Auxiliary Pwr Unit Upgrade (EAPUU) [MOD 15] 1-97-05-4521 | Jpgrad | e (EAI | PUU) | [MOD | 15] 1-8 | 97-05-4 | 1521 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | FY 1996 | | EV 1007 | - | EV 1009 | 2 | EV 1000 | ù | EV 2000 | EV 2001 | 1000 | à | EV 2002 | à | EV 2003 | J. | | TOTAL | |
| 1 | Oty S | ğ | 8 | Š | 8 | è | \$ | δ | \$ | οţ | \$ | Š | \$ | Š | 8 | Ž Ö | S | \$ | 8 |
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| | | - | 1500 | | | | | | | | | | | | | | | 1500 | |
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| | | | - | 2.4 | | | | - | | | | | | | | | | | 2.4 |
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| | | | | | 1500 | | | | | | | | | | | | | 1500 | |
| | | | | 2.4 | | | | | | | | | | | | | | | 2.4 |
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| | | | | | | Ž | DOINIC | AL MO | INDIVIDUAL MODIFICATION | LION | | | | | | | Date | | u. | February 1998 | 966 | |
|--|---------------------------------|--------------------------|----------------------|--------------|---------------------------------------|-------------|------------|--|--------------------------|--|----------|--------------------------|----------|------------------|---|----------|--------------|----------|-------------------|---------------|----------|--------|
| MODIFICATION TITLE: | | Fire | NBC Fire Warning | | (NBCFW) | V) [I | MOD | 16] 1 | 97-0 | [MOD 16] 1-97-05-4524 | - | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED | IS AFFEC | TED: | | M1 = 0, | i | IPM1 = 0, | ₹ . | A1 = | M1A1 = 4327, | | M1A2 = 0 | | ТОТА | TOTAL ROMT | IT = 4327 | 127 | | | | | | |
| DESCRIPTION / JUSTIFICATION: | IFICATION A | 2 | | | | 9.9 | | | | (| | | | | discharge mateur (locisalei | 900 | 1, 6, | 1 | 14 2022024PDC +1 | 900 | 9 | |
| I The NBC File Warning (NBC-W) modification is all NBC (Nuclear, Crientical & | warriing Young | בואט אליני איני איניי | ر ا ا | מל ה | | 5 4 | 2 2 2 | ֓֞֝֜֝֞֜֜֜֝֝֓֜֜֜֜֜֝֓֓֓֓֓֓֜֜֜֜֜֓֓֓֓֓֓֜֜֜֜֜֜֓֓֓֓֡֓֜֜֜֜֜֜֓֡֓֡֓֜֜֡֓֜֜֜֡֓֡֓֜֜֡֡֓֜֜֡֡֡֡֓֜֜֡֡֓֜֜֜֡֓֡֓֜֜֜֡֡֓֜֜֜֡֡֜֜֝֡֡֡ | NUCLE | ֓֞֝֝֞֝֞֝֝֓֞֝֝֓֞֝֝֝֓֞֝֝֝֓֓֞֝֝֝֓֓֓֝֝֝֝֝֝֝֝ | | ָאָ לָּ מָלָיִ מָּ | for an | ווכמוץ ווכוופ | callott is all type (typeceal, othernical a biological) system safety its. It addresses the | rning | ele plarn | <u> </u> | | מאמים בי | <u> </u> | |
| ploble in NDC system lifes caused by overheading. The NDC with the provide of an addible warning along the crews to take | inds wh | Jen t | he Cal | 3C Sp. | onson | 006 | r ter | npera | ture | iahti | lumin T | ates. | This | andib | le wal | rning | Willia | NO NO | anko | rews | to tal | ê |
| the early action necessary to properly deal with an NBC filter fire. Only the M1A1 requires this modification. | necess | any | to pro | perly | deal | with | an N | BC fi | lter fi | ē. | Only t | he M | 1A1 F | equire | s this | modii | fication | n. | Earlier models do | mode | ls do | |
| not have the NBC system on - board and M1A2's are being modified through a software change. | BC syst | tem | on - b | oard a | Ind M | 11A2 | s are | pein | g mo | dified | thron | gh a | softwa | are ct | ange. | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
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| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | TUS / MAJ | JOR D | EVELO | PMENT | | MILESTONES: | ij | | | 7 | PLANNED | | | AC | ACCOMPLISHED | LISH | | | | | | |
| | Preliminary Design Review | iry De | sign R | эvіөw | | • | | • | 1 | ' | 2096 | | | | 3096 | 9 1 | | | | | | |
| | Critical Design Review |)esign | Reviev | > | | • | : | | • | | 3097 | | | | 2608 | <u> </u> | | | | | | |
| - | Initial Operational Test & Eval | eration | nal Tes | it & Ev | | • | • | | | Ì | 1098 | | | | 1098 | æ | | | | | | |
| | IPR Production Decision | Juction | Decis | lon | | • | | • | | - | 2038 | | | | | | | | | | | - |
| | T D P Available | /ailable | Φ | | | • | | | • | | 4038 | | | | | | | | | | | |
| Inetallation Schodule: | | | | | | | | | | | | | | | | | | | | | | |
| | Pr Yr | | FY 1997 | 997 | | | <u> </u> ₹ | FY 1998 | | _ | " | FY 1999 | | | " | FY 2000 | | - | | FY 2001 | 5 | |
| | Totals | = | 2 | 8 | 4 | - | | 2 | 8 | 4 | - | 2 | 3 | 4 | 1 | 2 | 3 | 4 | - | 2 | 3 | 4 |
| Inputs | | | | | | | | | _ | | | _ | (0) | 318 4 | 418 4 | 418 4 | 418 4 | 418 | 418 | 315 | | |
| Outputs | | | | | | | | | | \dashv | - | \dashv | _ | 4 | 418 4 | 418 4 | 418 4 | 418 | 370 | 350 | 331 | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | FY 2002 | 005 | | | F | FY 2003 | | | " | FY 2004 | | | - | FY 2005 | | 7 | | ပ | | ۲ | Totals |
| | 1 | 2 | 3 | 4 | - | 2 | | က | 4 | - | 2 | ဇ | 4 | - | 2 | ဗ | 4 | Complete | ete | | | |
| Inputs | | | | | | | | | | | | | | | | | | - | 1604 | | | 4327 |
| Outputs | | | | | | | | | _ | - | - | - | \dashv | \dashv | - | - | - | | 4 | | | 4327 |
| METHOD OF IMPLEMENTATION: Contractor Teams | ENTATIO | ö" | ontractor EV 1997 | r Team | • | ADMI | ZISTR. | ATIVE LEA | ADMINISTRATIVE LEADTIME: | IME: | 4 | | Months | Ē à | PRODUCTION LEADTIME: FY 1999 .IAN 99 | ION LE | LEADTIM | | 8 | Months | | |
| Delivery Date: | | | FY 1997 | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | FY 1998 | 866 | \ \ \ \ \ | . ــ | | | ` | FY 1999 | SEI | SEP 99 | | | | | |
| | | | | | | | | | | | | | ١ | | | | | | | | l | 1 |

| FF 1595 | | | | | | <u>Q</u> | IVIDUAL | . MODIF | INDIVIDUAL MODIFICATION | _ | | | | | | | Date | | February 1998 | 1998 | |
|--|----------------------------------|----------|-----------|---------|----|----------|---------|---------|--|----------|--------|------|-----|----------|-----|-----|------|------|---------------|-------|---------|
| PY 13966 And Prior Oly 6 Oly 7 S Oly 7 S Oly 8 | MODIFICATION TITLE (Cont): | | NBC | Fire V | | | CFW) | IOW] | 16] 1 | -97-05 | 5-4524 | | | | | | | | | | |
| FY 1996 | FINANCIAL PLAN: (\$ in Millions) | | | | | | | | | | | | | | | | | | | | |
| Authoricuring and Prior FV 1999 FV 1999 FV 2000 FV 2001 FV 2002 FV 2002 FV 2002 FV 2002 FV 2003 FV 2004 FV 2003 FV 2004 FV 2003 FV 2004 FV 2003 FV 2004 FV 2003 FV 2004 FV 2003 FV 2004 FV 200 | | L | | | | | | | | | | | | | | | | | | | |
| Nonrecurring recurring may 5 Gy 5 Gy 5 Gy 5 Gy 5 Gy 5 Gy 5 Gy 5 | | and Prio | + | FY 19 | 26 | FY 15 | 86 | FY | 666 | FY 20 | g (| FYZ | ١٥ | FYZ | 200 | FY2 | 003 | | - 1 | TOTAL | ¥L , |
| Noncounting Noncounting Noncounting Horizouring Horizo | L | 1 | \dagger |) 2) | A | 5 | P | 25 | P | <u>}</u> | A | 25 | A | <u>}</u> | A | 3 | A | 5 | A | 3 | A |
| Nonrecurring majo Ouders may be a secure of the control of the con | PROCUREMENT | | | | | | | | - | | | | | | | | | | | | |
| Tiders | Kit Quantity | | | | | | | 1672 | | 1051 | | | | | | | | 1604 | | 4327 | |
| oort clars | Installation Kits | | | | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | | | | | | |
| 1Kitis | Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| 19 19 19 19 19 19 19 19 | Equipment | | | | | | | | 4. | | 2.6 | | | | | | | | 4.5 | | 11.2 |
| Coort Don't L'Kits C- | Equipment, Nonrecuring | | | | | | | | | | | | | | | | | | | | |
| 1 Kils Ki | Data | | | | | | | | | | | | | | | | | | | | |
| Kils | Topics P. Company | | | | | | | | | | | | | | | | | | | | |
| 1 Kits 1 | Support Equipment | | | | | | | | | | | | | | | | | | | | |
| 1 Kits | Other | | | | | | | | | | | | | | | | | • | | | |
| (its set the set of th | | | | | | | | | | | | | | | | | | | | | |
| 1Kils | menin contactor support | | _ | | | | | | | | | | | | | | | | | | |
| tin-Kits (iis display="1" to be a sign of the color of t | | | | | | | | | | | | | | | | | | | | | |
| Kilis | | | - | | | | | | | | | | | | | | | | | | |
| t Kits (iis | | | | | - | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| (iis 1672 0.7 1051 0.4 1604 0.8 1604 0. | Installation of Hardware | | | | | | | | | | | | | | | | | | | | |
| 1672 0.7 1051 0.4 1604 0.8 1604 0.8 1672 0.7 1051 0.4 1604 0.8 160 | FY 1996 & Prior Eqpt Kits | | | | | | | - | | | | | | | | | | - | | | |
| 1672 0.7 1051 0.4 1604 0.8 1672 0.7 1672 0.7 1672 0.7 1672 0.7 1673 0.4 1604 0.8 1673 0.6 1673 0.7 1673 0.7 1673 0.7 1673 0.7 1673 0.7 1674 0.8 1674 0.8 1674 0.8 1674 0.8 1674 0.8 1674 0.8 1675 0.4 1676 0.8 1677 0.8 1677 0.8 1677 0.8 1677 0.8 1677 0.8 1677 0.8 1677 0.8 1677 0.8 1678 0.8 1678 0.8 1678 0.8 1678 0.8 1678 0.8 1678 0.8 1678 0.8 1678 0.8 1678 0.8 1678 0.8 | FY 1997 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| 1672 0.7 1051 0.4 1604 0.8 1672 0.7 1672 0.7 1673 0.4 1604 0.8 4.1 3.3 0.4 0.8 5.3 | FY 1998 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| 1051 0.4 1604 0.8 1672 0.7 1051 0.4 1604 0.8 | FY 1999 Eqpt Kits | | | | | | | | | 1672 | 0.7 | | | | | | | | | 1672 | 0.7 |
| 1604 0.8 1672 0.7 1051 0.4 1604 0.8 | FY 2000 Eqpt kits | | | | | _ | | | | | | 1051 | 0.4 | | | | | | | 1051 | 0.4 |
| 1604 0.8 1672 0.7 1051 0.4 1674 0.8 | FY 2001 Eqpt kits | | | | | | | | | | | | | | | | | | - | | |
| 1604 0.8 1672 0.7 1051 0.4 1604 0.8 | FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| 1604 0.8 1672 0.7 1051 0.4 1604 0.8 4.1 3.3 0.4 5.3 | FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| 1672 0.7 1051 0.4 1604 0.8 4.1 3.3 0.4 5.3 | TC Equip 1604 Kits | | | | | | | | | | | | | | | | | 1604 | 0.8 | 1604 | 0.8 |
| 4.1 3.3 0.4 | Total Installment | | \dashv | | | | | | | 1672 | 0.7 | 1051 | 0.4 | | | | | 1604 | 0.8 | 4327 | 1.9 |
| | Total Procurement Cost | | | | | | | | 4.1 | | 3.3 | | 0.4 | | | | | | 5.3 | | 13.1 |

| Millions) Surring The string and Prior FY 1996 A | | inguisher FY 1998 | Extinguisher (HHFE) [MOD 17] 1-97-05-4525 FY 1998 FY 2000 FY 200 Gty \$ Gty \$ Gty 1.8 1.8 1.8 | FY 2000 Gly \$ | .97-05-4 | 525 | | | | | | | |
|--|-----|-------------------|---|-------------------|-----------|----------|---------|------|---------|----------|---------------------------------|---------------|------------|
| And Prior FY 1996 Although \$ City \$ | o l | 199 | 199 | | 0 | | | | | | | | |
| And Prior FY 1996 City \$ City State City State City Ci | Ø | 199 | 138 | | Ö | | | | | | | | |
| Nonrecurring Nonrecurring Guy \$ Qty Cuty \$ Qty Support The support of Support Aware Or Support Aware | σ | 199 | 199 | 00 | Ö | | | | | | | | |
| Nonrecurring recurring | | | - | | \dagger | FY 2001 | FY 2002 | 20 4 | FY 2003 | + | 2 1 2 2 2 3 0 | Č | TOTAL |
| Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment, Nonrecurring Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support FY 1996 & Prior Eqpt Kits FY 1998 Eqpt Kits | | | | 15000 | | <u> </u> | , | , | | \vdash | - | ┢ | • |
| Installation Kits Installation Kits, Nonrecurring Equipment Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Interim Contractor Support FY 1996 & Prior Eqpt Kits FY 1998 Eqpt Kits | | | | | | | | | | | | 15000 | 9 |
| Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1998 Eqpt Kits | | | | | | | | | | | | | |
| Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Interim Contractor Support FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits | | | | | α | | | | | | | | • |
| Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1998 Eqpt Kits | | | | | ? | | | | | | | | <u>:</u> |
| Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1998 Eqpt Kits | | | | | | | | | | | | | |
| Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1998 Eqpt Kits | | | | | | | | | | | | ···· | |
| Support Equipment Other Interim Contractor Support Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1998 Eqpt Kits | | | | | | | | | | | | | |
| Interim Contractor Support Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1998 Eqpt Kits | | | | | | | | | | _ | | | |
| Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits | | | | | | | | | | | | | |
| Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits | | | | | | | | | | | | | , <u>,</u> |
| Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits | | | | | | | | | | | | | |
| Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits | | | | | | | | | | | | | |
| Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits | | | | | | | | | | | | | |
| Installation of Hardware FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits FY 1997 Eqpt Kits FY 1998 Eqpt Kits | | | | | | | | | | | | | |
| FY 1997 Eqpt Kits FY 1998 Eqpt Kits | | | | | | | | | | - | | | |
| FY 1998 Eqpt Kits | | | | - | | | | | | | | | |
| | | | | | | | | | | | | | |
| FY 1999 Eqpt Kits | | | | | | | | | | | | | |
| FY 2000 Eqpt kits | | | | | | | | | | | · | | |
| FY 2001 Eqpt kits | | | | | | | | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | |
| FY 2003 Eqpt kits | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | | | | | 1 | - | | _ |
| Total Installment | | | | | | - | | | | | | $\frac{1}{1}$ | |
| Total Procurement Cost | | | | | 1.8 | | | | | | _ | - | 1.8 |

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|-------------|
| dual Mod |
| 2-3a Indivi |
| Exhibit F |
| |

| INDIVIDUAL MODIFICATION | NOIL | Date February 1998 |
|--|---|---|
| MODIFICATION TITLE: M1A2 Field Mods (A2FM) [MOD 18] 1-97-05-4534 MODELS OF SYSTEMS AFFECTED: | 34 | |
| DESCRIPTION / JUSTIFICATION: M142 Field Modifications (A2EM) represents funding for a continuing series of ungrades for M142 unique LRU's (Line Replaceable | ning series of und | rades for M1A2 unique LRU's (Line Replaceable |
| Unit's) and / or SRU's (Shop Replaceable Unit's). Examples of these include the Fire - Control Electronics Unit (FCEU), Commande Integrated Display (CID) and various electronic "cards" (A6, A9, A10, A12 & A13 for example) for which modification rather than | ese include the Fir 410, A12 & A13 f | Unit's). Examples of these include the Fire - Control Electronics Unit (FCEU), Commander's tronic "cards" (A6, A9, A10, A12 & A13 for example) for which modification rather than |
| replacement is both feasible and cost effective. There is no set quantity for this modification. These upgrades will be every fielded M1A2 tank as they are proven and approved and the number of fielded M1A2's will continue to increase. | quantity for this more number of fielde | There is no set quantity for this modification. These upgrades will be applied to a approved and the number of fielded M1A2's will continue to increase. This |
| program is expected to "run" as long as MTAZ production continues. | ý, | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: IPR Production Decision T D P Available | PLANNED 2Q96 2Q96 | ACCOMPLISHED 2096 |
| | | |
| Installation Schedule: FY 1997 FY 1998 | FY 1999 | FY 2000 FY 2001 |
| Totals | 1 2 3 | 4 1 2 3 4 1 2 3 |
| FY 2002 FY 2003 | FY 2004 | FY 2005 To Totals |
| 1 2 3 4 1 2 3 4 1 | 1 2 3 4 | 1 2 3 4 Complete |
| Inputs Outputs | | |
| METHOD OF IMPLEMENTATION: Contractor Team ADMINISTRATIVE LEADTIME: Contract Dates: FY 1997 FFB 97 FY 1998 F | AE: 3 Months FEB 98 | PRODUCTION LEADTIME: 6 Months FY 1999 FEB 99 |
| FY 1997 AUG 97 FY 1998 | | AUG |

| | | | | | INDIN | DUAL N | INDIVIDUAL MODIFICATION | LION | | | | | | | Date | | February 1998 | y 1998 | |
|----------------------------------|-----------|---------------|---------|------|---------|--------|---------------------------------|---------|------------|-----|---------|----|---------|---------|-----------|---------|---------------|--------|------|
| MODIFICATION TITLE (Cont): | | M1A2 Field Mo | Field | Mods | (A2FN | A) [MC | ds (A2FM) [MOD 18] 1-97-05-4534 | 1-97-05 | -4534 | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | L | ٦ | | | | | | | | | | | | | | | | | |
| | and Prior | | FY 1997 | - | FY 1998 | - | FY 1999 | Ĺ | FY 2000 | ΕĄ | FY 2001 | ΕΥ | FY 2002 | FY 2003 | 003 | 70 | | TOTAL | Ā |
| | Oty \$ | 0 | * | T | Oty \$ | t | Oty \$ | ð | 69 | ð | 49 | δţ | 69 | δţ | 49 | Oţ V | 69 | Ş | 69 |
| RDT&E PROCUREMENT | | | | | | | | | | | | | | | | | | | |
| Kit Quantity | | | | - | | | | | | | | | | | | | | | |
| Installation Kits | | | | | | | | | | | | | | | | | | | |
| Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | | | |
| Equipment | | _ | | | | | | | | | | | | | | | | | |
| Equipment, Nonrecurring | | | | | | | | | | | | | | | | | | | - |
| Crigineering Criange Orders | | | | | | | | | | | | | | | | | | | |
| Training Equipment | | | | | | | | | | | | | | | | | - | | |
| Support Equipment | | | | | | - | - 111 | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits | | | = | | | | | | | | | | | | | | | | |
| FY 1997 Eqpt Kits | | | | 1.4 | | | | | | | | | | | | | | | 1.4 |
| FY 1998 Eqpt Kits | | | | | | 6.0 | | | | | | | | | | | | | 0.9 |
| FY 1999 Eqpt Kits | | | | | - | | | 0.2 | | | | | | | | | | | 0.5 |
| FY 2000 Eqpt kits | | | | | | | | | 1.0 | _ | | | | | | | | | 1.0 |
| FY 2001 Eqpt kits | | | | | | | | | | | 2.0 | _ | , | | | | | | 2.0 |
| FY 2002 Eqpt Kits | | | | | | | | | | | | | 0.1 | | * | | | | 0. 6 |
| TC Equip-Kits | | | | | | | <u> </u> | | | | | | | | <u>zi</u> | | 6.0 | | 6.0 |
| Total Installment | | ┞ | - | 4.1 | | 6.0 | | 0.2 | - | 1.0 | 2.0 | | 1.0 | | 1.2 | | 6.0 | | 13.7 |
| Total Procurement Cost | | \vdash | L | 4.1 | | 6.0 | | 0.2 | - <u>-</u> | 1.0 | 2.0 | | 1.0 | | 1.2 | | 0.9 | | 13.7 |
| | | | | | | | | | | | | | | | | | | | |

| | | | | | ž | INDIVIDUAL MODIFICATION | MODIF | -ICATIO | _ | | | | | | | Date | | Februa | February 1998 | |
|--|---------|------|----------------|-----|---------|-------------------------|-------|---------|-------|-----|------|------|--------|-------|---|-------|---|--------|---------------|------|
| MODIFICATION TITLE (Cont): | | Ma | Matrix Support | | (MXSI | MXSP) [MOD 19] N/A | D 19] | A/N | | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | | | 7 | | | | | | | | | | | | | | | | | |
| | FY 1996 | 966 | 1004 | 200 | 2007 | 900 | 7. | 900 | 2 | 9 | 2000 | 1 | 2000 | 9 | | 0000 | | | į. | |
| | Of all | 5 69 | Δį | 9 | - Se | 986 | ğ | 888 | Oth S | 8 | Z A | 3 69 | ž Š | \$005 | ð | \$003 | O | 9 | Of VI | - Y- |
| RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits Installation Kits Equipment Equipment Equipment Support Other Interim Contractor Support Interim Contractor Support FY 1996 & Prior Eqpt Kits FY 1999 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits | | | | | | 8.0 | | ٥. ئ | | 9.0 | | 9.0 | | 0.6 | | 9.0 | | 3.4 | | 7.3 |
| Total Procurement Cost | | | | 0.5 | | 0.5 | | 0.5 | | 9.0 | | 9.0 | | 0.6 | | 9.0 | | 3.4 | | 7.3 |

| | | | | | | QNI | VIDUA | L MOD | INDIVIDUAL MODIFICATION | NOI | | | | | | | | Date | | Februa | February 1998 | |
|---|---------------------|--------------------------------------|-----------------|---|---------------------------------------|-------------------------------|----------------|----------|--------------------------|---------|---------------|------------|----------|----------------|-----------|------------|----------------------|----------|--|------------|---------------|-------|
| MODIFICATION TITLE: | Prior | Prior Year Mod Installar | Mod | nstalla | tion | PYMI | [MC | D 20 | (PYMI) [MOD 20] N / A | _ | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: | AFFEC | CTED: | 2 | M1 = 35 | = 355, 1PM1 = 892, | PM1 = | 892, | | M1A1 = 4351, | | M1A2 = 1079 | = 1078 | | 7 |)TAL | TOTAL ROMT | = 6847. | .21 | | | | |
| DESCRIPTION/JUSTIFICATION: Continuing effort to install / apply modification kits procured during or before FY90. This effort was previously budgeted and executed within O&MA (P7M). Beginning in FY90 this effort transitioned from O&MA to PAA funding. | fications to inside | on: tall / a _l (P7M | pply r). Be | r modification kits procured during or before FY90. This effort was probeginning in FY90 this effort transitioned from O&MA to PAA funding. | tation og in | kits FY90 | orocul this | effort | uring | or be | fore d fro | FY90 | &MA | his et to P | fort 1 | was puring | orevia g. | usiy t | oudget | ed an | ъ | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: There are no hardware milestones associated with this program. | JS / MA | JOR DE | SVELOF | MENT ated wi | MILES th this | MILESTONES: h this program | | - fundii | ng deta | iled h | ere-in | is for | ft eff | stallati | on of | Modific | cation | Kits pre | All funding detailed here-in is for the installation of Modification Kits procured during or | during | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Installation Schadule: | | | | | | | | | | | | | | | | | | | | | | |
| | Pr Yr | | FY 1997 | 197 | | | F | FY 1998 | | | E | FY 1999 | | | | FY 2000 | 000 | | | Ŧ | FY 2001 | |
| Inputs | Totals 6847 | - | 7 | က | 4 | - | 2 | 3 | 4 | | | 2 | 8 | 4 | - | 2 | 3 | 4 | | 2 | 3 | 4 |
| s | 6408 | 100 | 66 | 66 | 66 | 21 | 21 | | | | | | \dashv | | \exists | | | | | | | |
| | | | | t | | i | | | | ì | | | - | | 100 | į | | | 1 | | | 1 |
| 1 | ļ | FY 2002 | 20 0 | 1 | ŀ | FY 2003 | 200 | ľ | | | 2004 | , | + | - | 17 2005 | 200 | , | | 01 | | | otais |
| Inputs | = | 4 | 9 | - | 1 | 7 | 2 | | | | u u | 5 | - | - | 1 | | | | oloidin. | | | 6847 |
| Outputs | | | | | | | | | | | | | _ | \dashv | | | | | | | | 6847 |
| METHOD OF IMPLEMENTATION: N/A | NTATIC | NO:NC | 1/A | | | NDMIN | STRA | FIVE LEA | ADMINISTRATIVE LEADTIME: | ؟ نن | | N/A Months | ıths | ā ú | PRODUC | CTION | PRODUCTION LEADTIME: | TIME: | Y/Z | N/A Months | | |
| Contract Dates: Delivery Date: | | | FY 1997 | | < < < < < < < < < < < < < < < < < < < | | | FY 1998 | 0 & | X | | | | LŒ | FY 1999 | | (| | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

| | | | _ | ₩ | 70.4 | 70.4 |
|-------------------------|------------------------------------|----------------------------------|-----------|-----|--|------------------------|
| y 1998 | | | TOTAL | Qty | 6847 | |
| February 1998 | | | | \$ | | |
| | | | 70 | Qty | | |
| Date | | | 003 | \$ | | |
| a | | | FY 2003 | Qty | | |
| | | | FY 2002 | \$ | | |
| | | | FY 2 | Qty | | |
| | | | FY 2001 | 8 | | |
| | | | FY: | Qty | | |
| | / A | | FY 2000 | \$ | | |
| NO | Installation (PYMI) [MOD 20] N / A | | FY | Qty | | |
| INDIVIDUAL MODIFICATION | [MOD | | FY 1999 | \$ | | |
| AL MOD | (PYMI) | | F | Qty | 0.5 | 0.5 |
| JOINION | ation | | FY 1998 | 69 | | 0 |
| 1 | | | FY | Qty | 9 42 | 6 |
| | Prior Year Mod | | FY 1997 | \$ | | 4.9 |
| | ior Ye | _ | 占 | Öţ | 397 | 0 |
| | P | 000 | and Prior | \$ | | 65.0 |
| | 0 | | and | Qty | 6408 | |
| | MODIFICATION TITLE (Cont): | FINANCIAL PLAN: (\$ in Millions) | | | RDT&E PROCUREMENT Kit Quantity Installation Kits, Nonrecurring Equipment Equipment Equipment Equipment Support Equipment Support Equipment Support Equipment Other Interim Contractor Support Interim Contractor Support FY 1996 & Prior Eqpt Kits FY 1998 Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2001 Eqpt Kits FY 2001 Eqpt Kits FY 2001 Eqpt Kits FY 2001 Eqpt Kits FY 2001 Eqpt Kits FY 2001 Eqpt Kits FY 2001 Eqpt Kits FY 2001 Eqpt Kits FY 2001 Eqpt Kits FY 2001 Eqpt Kits FY 2001 Eqpt Kits FY 2001 Eqpt Kits | Total Procurement Cost |

| | | INDIVIDUAL MODIFICATION | CATION | | | | Date | | February 1998 | |
|--|---|---|---------------------|------------------------------------|---------------------|--|--------------------------------|--|------------------------------|--------------|
| MODIFICATION TITLE: M1 | M1A1-D Integration Kit OSIP NO. 21 | IP NO. 21 | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED | M1 = | 0, IPM1 = 0 , M | M1A1 = 1535, | | M1A2 = 0 | 101 | TOTAL ROMT | IT = 1535 | 10 | |
| DESCRIPTION / JUSTIFICATION: This modification provides an integration kit for the Force XXI Battle Command Brigade and Below (FBCB2) into the M1A1 tank. Specifica complements the basic FBCB2 C2 integration kit by providing a far target designate capability for M1A1 tanks. The funding requested outfits the Army's first digitial division. This modification includes integration of a pointing device into the tank and rework of the tank | 10N: des an integration kit fo FBCB2 C2 integration kit gitial division. This mo | ation kit for the Force XXI Battle Command Brigade and Below (FBCB2) into the M1A1 tank. Specifically, it gration kit by providing a far target designate capability for M1A1 tanks. The funding requested This modification includes integration of a pointing device into the tank and rework of the tank | Commar arget des | nd Brigade ignate ca of a po | and Bel pability | low (FBCB2) for M1A1 ta vice into the | into the Marks. The tank and | 11A1 tank. e funding d rework of | Specifica requested the tank | ılly, it |
| computer to provide range and elevation data necessary for far target designate. The installation costs for this modification are included the hardware costs. | ge and elevation data ne | cessary for far target | designati | 9. The ir | nstallation | n costs for t | his modif | ication are | e included | . <u>s</u> |
| | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Preliminary Design Review Contractor Test & Eval. | US / MAJOR DEVELOPMENT MILE Prellminary Design Review Contractor Test & Eval. | STONES: | PLAN - 20 | ANNED 2098 3098 | | ACCOMPLISHED | SHED | | | |
| Critical IPR PI T D P | Critical Design Review IPR Production Decision TDP Available | | · · · | 4098 4098 1099 | | | | | | |
| Installation Schedule: | | | | | | | | | | |
| Pr Yr Totals | FY 1997 | FY 1998 | 4 | FY 1999 | 3 | 1 2 | 3 | 1 | 2 3 | 4 |
| Inputs Outputs | | | | | 25 | 100 25 100 | | | | |
| | FY 2002 | FY 2003 | FY | FY 2004 | _ | FY 2005 | | To | | Totals |
| | 2 3 4 1 | 2 3 4 | 1 2 | 3 | 4 | 2 3 | 4 | Complete | | |
| Inputs | | | | • | | | | 1410 | | 1535 1535 |
| METHOD OF IMPLEMENTATION: Contractor Team Contract Dates: FY 1997 I Delivery Date: FY 1997 | ION: Contractor Team FY 1997 N/A FY 1997 N/A | ADMINISTRATIVE LEADTIME: FY 1998 N FY 1998 N | TIME: N/A N/A | 2 Moi | Months | PRODUCTION LEADTIME: FY 1999 JAN 99 FY 1999 AUG 99 | I LEADTIME JAN 99 AUG 99 | 7 | Months | |
| | | | | | | | | | | |

| PINANCIAL PLAN: \$ in Millions Principle Principl | FY 1996 | | | | | | | | | | | |
|--|---|------|--------|---------|----------|--------|---|------|------|-------|------|-------|
| PY1996 | And Prior FY 1997 FY 1998 FY 1999 Qty \$ Qty \$ \$ Qty \$ \$ 20.3 | ŀ | | | | | | | | | | |
| Nonecuring man Prior | FY 1996 | ŀ | | : | | | | | | | | |
| City | Nonrecurring recurring recurring and sent ent ent ent ent ent ent ent ent ent | _ | 0006 A | EV 2001 | - | V 2002 | 2 | 2003 | Ī | | TOT | |
| Nonrecurring recurring recurring and orders and the first of the first | Nonrecurring recurring inge Orders ent ent ent or Support | O | 3 | 3 | 0 | 1 | ģ | 9 | | | à | 69 |
| Nonrecurring recurring recurring may o') and the state of | Nonrecurring recurring inge Orders ent ent ent dware | | | _ | \vdash | | | | | | | |
| Juring 125 20.3 1595 1410 1535 1500 1500 1500 1500 1500 1500 15 | urring ng rders roott | | | | | | | | | | | |
| Opt Critics 126.3 126 1410 1410 1410 1410 1410 1410 1410 141 | rders rders bort | | | | | | | | 1410 | | 1535 | |
| oort closes 125 1410 | rders rders root | | | | | | | | | | | |
| 100 | rders | | | | | | | | | | | |
| 1 Kits 410 Kits 41 | Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware EV 1996 & Prior Entr Kits | 20.3 | | | ***** | | | | | 271.4 | | 291.7 |
| 1- Kits 1- Kit | Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware FY 1996 & Prior Front Kits | | | | | | | | | | | |
| 125 125 125 125 125 125 125 125 125 125 | Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware FY 1996 & Prior Front Kits | | | | | | | | | | | |
| 1 Kils 1 | Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware EV 1996 & Prior Front Kits | | | | | | | | | | | |
| 1 Kits 1 | Support Equipment Other Interim Contractor Support Installation of Hardware EV 1906 & Prior Ernt Kits | | | | | | | | | | | |
| 125 125 125 125 125 125 125 125 125 125 | Other Interim Contractor Support Installation of Hardware EV 1996 & Prior Ernt Kits | | | | | | | | | | | |
| 1 Kits 1-25 1-25 1-25 1-25 1-25 1-25 1-25 1-25 | Installation of Hardware | | | | | | | | | | | |
| 1 Kits 410 Kits | Installation of Hardware EV 1996 & Prior Ent Kits | | | | | | | | | | | |
| 1 Kits 1 | Installation of Hardware FY 1996 & Prior Fint Kits | | | | *** | | | | | | | |
| 1 Kits 1 | Installation of Hardware | | | | , | | | | | | | |
| 1 Kits 1 | Installation of Hardware | | | | | | | | | | | |
| 1 Kits 1 K | Installation of Hardware FY 1996 & Prior Ent Kits | | | | | | | | | | | |
| 1 Kits 1 | FY 1996 & Prior Hant Kits | | | 11.014 | | | | | | | | |
| Egpt - Kits Egpt - | | | | | | | | | | | | |
| Egpt - Kits Egpt - | | | | | | | | | | | | |
| Egpt - Kits | EV 4008 Fort - Kile | | | | | | | | | | | |
| Egpt - kits | | | 30 | | | | | | ~- | | 40 | |
| Eqpt - kits | 2001 | | 3 | | | | | | | | 3 | |
| Egpt kits Egpt kits Egpt kits 1410 1410 Kits 125 curement Cost 20.3 | TY 2000 Edpt Kills | | | | | | | | | | | |
| Egpt kits 1410 1410 1410 1410 1410 1410 1410 1410 1410 1410 1410 1535 <td>FY 2001 Eqpt kits</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | FY 2001 Eqpt kits | | | | | | | | | | | |
| Egpt kits -1410 Kits 1410 1410 1410 1410 Kits 125 1410 1535 curement Cost 20.3 20.3 271.4 | FY 2002 Eqpt kits | | | | | | | | | | | |
| 1410 Kits 14 | FY 2003 Eqpt kits | | | | | | | | | | | |
| 125 1410 1536 20.3 20.3 | | | | | | | | | 1410 | | 1410 | |
| 20.3 | Total Installment | 1 | 25 | | | | | | 1410 | | 1535 | |
| | | 20.3 | | | _ | | _ | | | 271.4 | | 291.7 |

| P-40, | Sheet |
|---------|---------------|
| Exhibit | Justification |
| | Item |
| | Budget |

| Exhibit P-40, Budget Hem Justification Sheet Future Montancial Internation Prooperal Remarks Appropriation Prooperal Remarks Appropriation Prooperal Remarks Appropriation Prooperal Remarks TRIKO CAMPI VATE CAMPI VATE COMPILED PROCUREMENT OF WIND SAPE PROCUR | | | | | | | | | Date: | | | | |
|--|--------------------------------------|------------------|---------------------|----------------------|--------------|---------------------|---------------------|---------|----------|----------------|---------------|-------------|------------|
| Part I Igen Nomencial Line A Part I I I I I I I I I I I I I I I I I I I | | | Exhibit P-4 | 0, Budget It | em Justifica | ition Sheet | | | | | February 1998 | | |
| Prior Years ABRAMAS LY 2004 FY 1996 FY 2000 FY 2002 FY 2002 FY 2002 FY 2002 FY 2003 F | Appropriation / Budget Activity/Seri | al No: | | | | | P-1 Item Nomenclatu | re: | | | | | |
| Prior Years FY 1995 FY 1996 FY 2000 FY 2001 FY 2002 FY 2003 To Complète 172 34 100 120 120 120 120 120 120 120 120 120 120 120 120 120 120 165 90 88 To Complète 658.0 132.2 440.1 501.0 566.8 666.2 667.5 630.1 595.6 675.3 344.3 196.7 33.9 181.3 297.2 258.2 263.5 262.9 242.7 153.6 675.3 344.3 230.6 181.3 297.2 258.2 262.9 242.7 153.6 144.3 144.3 144.3 491.9 279.6 462.0 582.2 675.6 647.3 541.0 586.3 530.9 344.3 1.6 2.7 17.1 9.2 13.7 9.8 9.9 10.8 66.3 56.9 56.8 56.8 56.8 56.8 | PROCUREMEN | T OF WPNS & TRKD | CMBT VEHS / 1 / Tra | icked Combat Vehicle | | | | | ABRAMS L | PGRADE PROGRAN | I (GA0750) | | |
| Prior Years FY 1995 FY 1996 FY 1996 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 To Complete 172 34 100 120 120 120 105 90 88 To Complete 658.0 132.2 440.1 501.0 586.8 666.2 667.5 630.1 595.6 675.3 344.3 196.7 33.9 181.3 297.2 258.2 253.5 262.9 242.7 153.6 144.3 344.3 230.6 181.3 297.2 258.2 253.5 262.9 242.7 153.6 144.3 144.3 41.6 230.6 462.0 582.2 675.6 647.3 541.0 586.3 530.9 344.3 1.6 2.7 17.1 9.2 137 9.8 9.9 10.8 16.9 36.9 34.3 693.5 282.3 3.6 4.9 5.1 551.8 663.2 546.9 56.9 66.9 | Program Elements for Code B Item | S: | | | Code: | Other Related Progr | ram Elements: | | | | | | |
| Prior Years FY 1995 FY 1996 FY 1999 FY 1999 FY 1999 FY 2000 FY 2001 FY 2003 FY 2003 TO Complete 172 34 100 120 120 120 105 90 88 70 668.0 668.0 120 120 120 105 90 88 74.3 84.3 74.3 </th <th></th> <th></th> <th></th> <th></th> <th>∢</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | | | | | ∢ | | | | | | | | |
| 172 34 100 120 | | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| 658.0 132.2 440.1 501.0 586.8 666.2 667.5 690.1 595.6 675.3 344.3 196.7 33.9 181.3 297.2 258.2 253.5 262.9 242.7 153.6 144.3 144.3 230.6 181.3 297.2 258.2 262.9 242.7 153.6 144.3 <td>Proc Qty</td> <td>172</td> <td>34</td> <td>100</td> <td>120</td> <td>120</td> <td>120</td> <td>120</td> <td>105</td> <td>90</td> <td>88</td> <td></td> <td>1069</td> | Proc Qty | 172 | 34 | 100 | 120 | 120 | 120 | 120 | 105 | 90 | 88 | | 1069 |
| 196.7 33.9 181.3 297.2 258.2 253.5 262.9 242.7 153.6 144.3 | Gross Cost | 658.0 | 132.2 | 440.1 | 501.0 | 586.8 | 666.2 | 667.5 | 630.1 | 595.6 | 675.3 | 344.3 | 5897.1 |
| 230.6 181.3 297.2 258.2 262.9 242.7 153.6 144.3 7 691.9 279.6 556.0 462.0 582.2 675.6 647.3 541.0 586.3 530.9 344.3 1.6 2.7 17.1 9.2 13.7 9.8 9.9 10.8 16.9 16.0 38.0 693.5 282.3 573.1 471.2 595.8 685.4 657.2 551.8 603.2 546.9 382.3 3 3.6 3.7 4.3 4.9 4.9 5.7 6.8 7.9 8 3 4.9 4.9 5.6 6.1 6.8 7.9 7.9 8 | ess PY Adv Proc | 196.7 | 33.9 | 181.3 | 297.2 | 258.2 | 253.5 | 262.9 | 242.7 | 153.6 | 144.3 | | 2024.4 |
| 691.9 279.6 556.0 462.0 582.2 675.6 647.3 541.0 586.3 530.9 344.3 1.6 2.7 17.1 9.2 13.7 9.8 9.9 10.8 16.9 16.0 38.0 693.5 282.3 573.1 471.2 595.8 685.4 657.2 551.8 603.2 546.9 382.3 3.5 3.6 4.3 4.9 4.9 5.7 6.8 7.9 8 3.8 4.0 4.6 4.3 5.0 5.6 6.1 6.8 7.9 7.9 | Plus CY Adv Proc | 230.6 | 181.3 | 297.2 | 258.2 | 253.5 | 262.9 | 242.7 | 153.6 | 144.3 | | | 2024.4 |
| 1.6 2.7 17.1 9.2 13.7 9.8 9.9 10.8 16.9 16.0 38.0 693.5 282.3 573.1 471.2 595.8 685.4 657.2 551.8 603.2 546.9 382.3 3.5 3.6 3.7 4.9 4.9 5.2 5.7 6.8 7.9 3.8 4.0 4.6 4.3 5.0 5.6 5.6 6.1 6.8 7.9 | Vet Proc (P-1) | 691.9 | 279.6 | 556.0 | 462.0 | 582.2 | 675.6 | 647.3 | 541.0 | 586.3 | 530.9 | 344.3 | 5897.1 |
| 693.5 282.3 673.1 471.2 595.8 685.4 657.2 551.8 603.2 546.9 382.3 3.5 3.6 3.7 3.6 4.3 4.9 4.9 5.6 5.7 6.8 7.9 3.8 4.0 4.6 4.3 5.0 5.6 5.6 6.1 6.8 7.9 | nitial Spares | 1.6 | 2.7 | 17.1 | 9.2 | 13.7 | 9.6 | 9.9 | 10.8 | 16.9 | 16.0 | 38.0 | 145.7 |
| 3.5 3.6 4.3 4.9 4.9 5.2 5.7 3.8 4.0 4.6 4.3 5.0 5.6 5.6 6.1 6.8 | Fotal Proc Cost | 693.5 | 282.3 | 573.1 | 471.2 | 595.8 | 685.4 | 657.2 | 551.8 | 603.2 | 546.9 | 382.3 | 6042.8 |
| 3.8 4.0 4.6 4.3 5.0 5.6 5.6 6.1 6.8 | Flyaway U/C | 3.5 | 3.6 | 3.7 | 3.6 | 4.3 | 4.9 | 4.9 | 5.2 | 5.7 | 6.8 | | |
| | Wpn Sys Proc U/C | 3.8 | 4.0 | 4.6 | 4.3 | 5.0 | 5.6 | 5.6 | 6.1 | 6.8 | 7.9 | | |

DESCRIPTION: The Abrams Tank Upgrade Program supports the Department of Army vision for the future. The Upgrade Program will reconfigure M1 Tanks to the M1A2 configuration making it a more survivable and lethal tank. This includes the Commander's Independent Thermal Viewer (CITV), Improved Commander's Weapon Station (ICWS), Position Navigation (POS/NAV) equipment, Radio Interface Unit (RIU), Core Architecture, D. U. Armor, 120mm Gun and Nuclear, Biological and Chemical (NBC) protection. In FY99 2nd Generation Forward Looking Infrared (FLIR) and vehicle core electronic upgrades will be cut into production.

JUSTIFICATION: The Upgrade Program will modernize the U.S. Army's armor force to enhance the combat effectiveness of the Abrams Tank Fleet and maintain the key elements of the tank industrial base.

| | ₹. | Appropriation/ Budget Activity/Serial No: | et Activity/S | erial No: | | P-1 Line Item | P-1 Line Item Nomenclature: | | | Weapon System Type: | Type: | Date: | |
|---|----|---|---------------|----------------------------|-----------|---------------|---------------------------------|---------------|-------|---------------------|-----------|-------|---------------|
| WTCV Cost Analysis | | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | OF WPNS & | k TRKD CMBT it Vehicles | | ABRAMS L | ABRAMS UPGRADE PROGRAM (GA0750) | IRAM (GA0750) | | | | Febr | February 1998 |
| WTCV | ₽ | | FY 96 | | | FY 97 | | | FY 98 | | | FY 99 | |
| Cost Elements | CD | TotalCost | Qty | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Qţ | UnitCost |
| | H | \$000 | Each | \$000 | \$000 | Each | \$000 | \$000 | Each | \$000 | 000\$ | Each | \$000 |
| 1. Basic Vehicle | < | 215393 | 100 | 2154 | 293949 | 120 | 2450 | 301095 | 120 | 2509 | 322228 | | 2685 |
| 2. Armor | : | 35742 | 80 | 447 | 27569 | 122 | 226 | 39292 | | 325 | 40186 | 120 | 335 |
| 3. H/TEU | | 5850 | 200 | 29 | 7170 | 240 | 30 | 6748 | | 28 | | | } |
| 4. Engine (DECU) | | 2347 | 100 | 23 | 2655 | 120 | 22 | 3072 | | 26 | 3114 | | 26 |
| | _ | 22684 | 100 | 227 | 22534 | 120 | 188 | 23482 | | 196 | ., | 120 | 198 |
| 6. Final Drive | | 1379 | 200 | 7 | 1491 | 240 | 9 | 1375 | | 9 | | | 9 |
| | | 32711 | 100 | 327 | 39485 | 120 | 329 | 39347 | | 328 | | | 15 |
| 8. Irack | | 3327 | 15600 | | 5678 | 18720 | | 5696 | 18720 | | 5696 | 18720 | |
| _ | | 2142 | 200 | 43 | 2057 | 9 | 34 | 2558 | | 43 | | | r. |
| _ | | 11672 | 90 | 117 | 11827 | 120 | 66 | 12073 | _ | 101 | _ | | 129 |
| 12. Driver's Night Viewer | | 539 | 100 | S. | 289 | 120 | ລ | 617 | | 5 | | | 5 |
| 13. Basic issue items | | 752 | 9 5 | 1 00 | 804 | 120 | | 692 | | 9 9 | 915 | | & |
| _ | | 568 | 9 6 | · 0: | 978 | 2 0 | α | 1049 | 120 | σ | | 120 | σ |
| 16. Special Tools & Test Sets | | 3376 | 3 |) | 753 | 3 |) | 18400 | | , | _ | |) |
| _ | | 28082 | | | 62557 | | | 65162 | | | 72083 | | |
| | | 2401 | | | 1685 | | | 1711 | | | 1726 | | |
| 19. Matrix Support | | 7913 | | | 491 | | | 4324 | | | 4361 | | |
| | _ | 10901 | | | 2643 | | | 6956 | | | 3251 | | |
| _ | | 1184 | | | 926 | | | 1080 | | | 1089 | | |
| _ | | 4114 | | | 4172 | | | 4237 | | | 4273 | | |
| 24. Transportation (FDT) | | 525 | | | 619 | | | 629 | | | 634 | | |
| | | 1000 | | | 0000 | | | 9030 | | | 96636 | 120 | 805 |
| | | | | | | | | 1038 | | | | | |
| 28. Pre Mod Depot Maint 29. Industrial Base/"Shut-Down | | | | | | | | 24316 | 120 | 203 | 28026 | 120 | 234 |
| 30. NonRecurring Cost (Pilots, GFE Seed, IPT | _ | | | | | | | | | | | | |
| OI. SEIVICE LIE EXCENSION (SLE) | | | - | | | | | | | _ | | | |
| | | | | | | | | | | | | | |
| TOTAL | | 440100 | | | 501046 | | | 586799 | | | | | |
| Gross P-1 End Cost | | 440100 | 100 | 4401 | 501046 | 120 | 4175 | 586799 | 120 | 4890 | 666195 | 120 | 5552 |
| Nat P-1 Fill Funding Cost | | 258794 | | | 203828 | | | 328628 | | | 412661 | | |
| Plus: P-1 CY Adv Proc | | 297218 | | | 258171 | | | 253534 | | | 262942 | | |
| Other Non P-1 Costs | | 19774 | | | 24955 | | - | | | | | | |
| Initial Spares Mods | _ | 17057 | | | 9248 | | | 13662 | | | 0086 | | |
| TOTAL | | 592843 | | | 496202 | | | 595824 | | | 685403 | | |
| | | | | | | | | | | | | | |

| | | | l | | | | | 2 | Date: | | ľ |
|--|---|--|--|--|---|--|---|---------------------------------|----------|-----------------|-------------------|
| | Exhibit F | Exhibit P-5a, Budget Procurement History and Planning | listory an | d Planning | | | | | | February 1998 | 9 |
| Appropriation / Budget / | Appropriation / Budget Activity/Serial No: | | Weapon System Type: | п Туре: | | P-1 Line frem Nomenclature: | omenclature: | | | | |
| PROCUREMENT OF W | PNS & THKD CMBT VEHS / 1 / Tracked Combat Vehicles | | | | | | ABRAMS U | ABRAMS UPGRADE PROGRAM (GA0750) | AM (GA07 | 20) | |
| WBS Cost Elements: | | Contractor and Location | Contract Method | Location of PCO | Award Date | Date of First | ντα | Unit Cost | Specs | Date F Revsn | RFP Issue Date |
| Fiscal Years | | | and Type | | | Delivery | Each | \$000 | Now? | Avail | |
| 1. Basic Vehicle | | | | | | | | | | | |
| FY 96 | | GDLS/1 | | TACOM-Warren | 96-Inf | Oct-96 | 9 | 2154 | Yes | | Jan-95 |
| FY 97 | | GDLS/1 | | TACOM-Warren | Dec-96 | Aug-97 | 120 | 2450 | Yes | | Jan-95 |
| FY 98 | | GDLS/1 | | TACOM-Warren | Feb-98 | Ang-98 | 120 | 2509 | Yes | | Jan-95 |
| FY 99 | | GDLS/1 | /2(4) | TACOM-Warren | Feb-99 | Ang-99 | 120 | 2685 | Yes | | Jan-95 |
| 2 Armor/3 | | | | | | | | | | | |
| EV 96 | | LITCO/5 | SS/CPFF | DOE/4 | Mar-95 | Apr-96 | 80 | 447 | Y Z | | AN |
| FY 97 | | LITCO/5 | | DOE/4 | Mar-96 | Feb-97 | 122 | 226 | Ϋ́ | | ¥ |
| FY 98 | | LITCO/5 | | DOE/4 | Feb-97 | Feb-98 | 121 | 325 | ¥ Z | | Ą |
| FY 99 | | LITCO/5 | SS/CPFF | DOE/4 | Jan-98 | Feb-99 | 120 | 335 | ¥ | | ¥ Z |
| 1070 | | | | | | | | | | | |
| S. T. E.C. FY 96 | | GDLS/1 | SS/FFP | TACOM-Warren/6 | Apr-95 | Apr-96 | 200 | 59 | Yes | | |
| FY 97 | | GDLS/1 | | TACOM-ACALA/7 | May-96 | Feb-97 | 240 | 30 | Yes | | Feb-96 |
| FY 98 | | GDLS/1 | OPTION | TACOM-ACALA/7 | Mar-97 | Feb-98 | 240 | 28 | Yes | | Feb-96 |
| | | | | | | | | | | | |
| 4. Engine (DECU)/10 | 0)/10 | | | | 1 | | , | - | -; | | |
| FY 96 | | AlliedSignal/8 | SS/FFP | TACOM-warren | Peb-95 | Apr-96 | 00 0 | E 6 | Yes | | Aug-94 |
| FY 9/ | | Ailled Signal/8 | - | TACOM-Warren | Mar-90 | Lob oo | 0 0 | 7 0 | se > | | Aug-94 |
| FY 98 | | AlliedSignal/8 | | TACOM-warren | Apr-97 | 26-09- | 2 5 | 0 0 | Yes | | Aug-94 |
| 66 | | Ailled Signal/8 | 711/00 | L ACCIM-Warren | Jan-90 | SS-GAL | 02 | Q | Ser | _ | /a-dac |
| 5. Transmission | | | | | | | | | | | |
| FY 96 | | Allison Transmission Div/9 | OPTION | OPTION TACOM-Warren | Apr-95 | Apr-96 | 100 | 227 | Yes | _ | Oct-93 |
| FY 97 | | Allison Transmission Div/9 | OPTION | TACOM-Warren | Dec-95 | Feb-97 | 120 | 188 | Yes | | Oct-93 |
| FY 98 | | Allison Transmission Div/9 | SS/FFP/CF | SS/FFP/CFTACOM-Warren | Sep-97 | Feb-98 | 120 | 196 | Yes | | Dec-96 |
| FY 99 | | Allison Transmission Div/9 | OPTION | TACOM-Warren | Feb-98 | Feb-99 | 120 | 198 | Yes | _ | Dec-96 |
| пеманкs: /1. /2. /2. /3. /3. /4. /4. /5. /6. | | General Dynamics Land System, Warren, MI SS/FFP/M5 Armor production leads tank production Department of Energy Lockheed Idaho Technologies Company, Idaho Falls, Idaho Awarded to GDLS as part of the Long Lead Material Contract | 7. % 7. 10. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14 | //. Awarded to GDLS on a separate competitive contract //8. AlliedSignal/Control & Accessories, Tucson. AZ //9. Allison Transmission Div, GM Corp, Indianapolis, IN 10. Awards are against a Navy BOA Contract therefore no RFP issued only letter with new requirements. | eparate essories GM Col vy BOA requirem | competiti s, Tucson rp, Indian Contract | ive contra . AZ apolis, IN therefore | act V no RFP iss | pens | | |
| | | | | | | | | | | | |

| | | | | ABRAMS | ABRAMS UPGRADE PROGRAM (GA0750) | AAM (GAO | 750) |
|----------|-----------------------|------------|---------------|--------|---------------------------------|--------------------|-------------|
| Contract | Location of PCO | Award Date | Date of First | ΛTΩ | Unit Cost | Specs | Dat Revs |
| and Type | | | Delivery | Each | \$000 | Now? | Ava |
| | | | | | | | |
| REQ | | Mar-95 | Apr-96 | 200 | 7 | Yes | |
| C/FFP | TACOM-Warren | Nov-95 | Feb-97 | 240 | 9 | Yes | |
| OPTION | TACOM-Warren | Jan-97 | Feb-98 | 240 | 9 | Yes | |
| OPTION | TACOM-Warren | Apr-98 | Feb-99 | 240 | ω | Yes | |
| Various | TACOM-ACALA | Var | Apr-96 | 100 | 327 | Yes | |
| Various | TACOM-ACALA | Var | Feb-97 | 120 | 329 | Yes | |
| Various | TACOM-ACALA | Var | Feb-98 | 120 | 328 | Yes | |
| Varions | TACOM-ACALA | Var | Feb-99 | 120 | 15 | Yes | |
| | | | | | · | | |
| C/FFP | TACOM-Warren | Feb-96 | Apr-96 | 15600 | | Yes | |
| OPTION | TACOM-Warren | Mar-96 | Feb-97 | 18720 | | Yes | |
| OPTION | TACOM-Warren | Nov-96 | Feb-98 | 18720 | | Yes | |
| SS/FFP | TACOM-Warren | Apr-98 | Feb-99 | 18720 | | Yes | |
| | | | | | | | |
| 72 | TACOM-Warren | Feb-95 | Apr-96 | 3200 | | Yes | |
| 72 | TACOM-Warren | Mar-96 | Feb-97 | 3840 | | Yes | |
| 72 | TACOM-Warren | Dec-96 | _ | 3840 | | Yes | |
| 72 | TACOM-Warren | Apr-98 | Feb-99 | 3840 | | Yes | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| 91 ON m | m No. 19 Page 4 of 11 | | | | Exhibit | Exhibit P-5A Proci | 200 |
| 182 | 2 | | | | I | History and P | n P |

Goodyear Tire & Rubber/3 Goodyear Tire & Rubber/3 Goodyear Tire & Rubber/3 Goodyear Tire & Rubber/3

8. Track

FY 96 FY 97 FY 98 FY 99

B&C Corp/4 B&C Corp/4

9. Roadwheels FY 96 FY 97 FY 98 FY 99

B&C Corp/4

Hughes Aircraft, El Segundo, CA Goodyear Tire & Rubber Co., Akron, OH

REMARKS:

B&C Corp/4

Hughes/2/Various Hughes/2/Various

Hughes/2/Various

Hughes/2/Various

7. Fire Control

FY 96 FY 97 FY 98 FY 99

LOC Performance, Inc/1 LOC Performance, Inc/1 LOC Performance, Inc/1

TACOM NICP

Oct-95 Oct-95 Oct-95 Dec-97

Apr-95 Apr-95 Apr-95

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RFP Issue Date

February 1998

2-1 Line Item Nomenclature:

Exhibit P-5a, Budget Procurement History and Planning

Appropriation / Budget Activity/Sarial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat

VBS Cost Elements:

iscal Years

6. Final Drive

FY 96

FY 97 FY 98 FY 99

Neapon System Type:

Contractor and Location

Jul-92 Sep-95 Sep-95 Sep-95

Loc Performance, Inc, Plymouth, MI
 Hughes Aircraft, El Segundo, CA
 Goodyear Tire & Rubber Co., Akron, O
 B&C Corp, Barberton, OH
 Requirement Contract/FFP

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| | | | | | | | | Date: | | |
|---|---|---------------------|-----------------|--------------------------|-----------------------------|--------------|---------------------------------|-----------|-----------------|-------------------|
| Exhibit F | Exhibit P-5a, Budget Procurement History and Planning | listory ar | d Planning | | | | | Ŗ | February 1998 | 8 |
| Appropriation / Budget Activity/Serial No: | | Weapon System Type: | n Type: | | P-1 Line Item Nomenclature: | Nomenclature | | | | |
| PROCUREMENT OF WING & IND OND! VEHOUS IN HEARING COMPANY | | | | | | ABRAMS | ABRAMS UPGRADE PROGRAM (GA0750) | RAM (GA0) | | |
| WBS Cost Elements: | Contractor and Location | Contract Method | Location of PCO | Award Date Date of First | Date of First | ΔTΛ | Unit Cost | Specs | Date F Revsn | RFP Issue Date |
| Fiscal Years | | and Type | | | Delivery | Each | \$000 | Now? | Avail | |
| 10. Gun Mounts/1 | | | | | | | | | | |
| FY 96 | RIA | WR | | Jun-95 | Apr-96 | 20 | 43 | | | ¥ Z |
| FY 97 | RIA | WR | | Mar-96 | Feb-97 | 9 | 34 | | | ¥ |
| FY 98 | RIA | WR | | Feb-97 | Feb-98 | 9 | 43 | | | ¥ Z |
| FY 99 | RIA | W | | Apr-98 | Feb-99 | 09 | 55 | Yes | | ¥ X |
| | | | | | | | | | | |
| 11. Gun | | | | | | | | | | : |
| FY 96 | Watervliet | WR | | Mar-95 | Apr-96 | 9 | 117 | Yes | | Y Z |
| FY 97 | Watervliet | X R | | 96-bny | Feb-97 | 120 | 66 | | | ¥ Z |
| FY 98 | Watervliet | N H | | Mar-97 | Feb-98 | 120 | 101 | Yes | | Ϋ́ |
| FY 99 | Watervliet | W. | | Apr-98 | Feb-99 | 120 | 129 | Yes | | ¥ V |
| | | | | | | | | | | |
| 12. Driver's Night Viewer | | | | | | | | | | |
| FY 96 | CECOM NICP | REG | | Jul-95 | Apr-96 | 100 | 5 | | | Ϋ́ |
| FY 97 | CECOM NICP | REO | | 96-unf | Feb-97 | 120 | 5 | | | ¥ X |
| FY 98 | CECOM NICP | REG | CECOM | Sep-97 | Feb-98 | 120 | 5 | | | Ϋ́ |
| FY 99 | TBD | TB | CECOM | Jul-98 | Feb-99 | 120 | 2 | Yes | | |
| | | | | | | | | | | |
| 13. Dasic Issue Items | V V V V V V V V V V | Q.M | | May 05 | Anr.06 | 10 | α | | | ΔN. |
| FV 97 | TACOM-ACALA | × | | May-96 | | 120 | 7 | | ., | Ž |
| FY 98 | TACOM-ACALA | W | | Feb-97 | Feb-98 | 120 | 9 | Yes | | ¥ |
| E < 00 | TACOM-ACA! A | × | | Apr-98 | Feb-99 | 120 | 8 | | | ¥ |
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| | | | | | | | | | 1 | |
| REMARKS: /1. RIA, Rock Island Arsenal, Rock Island, IL produces 50% | and, IL produces 50% of gun mounts. | | | | | | | | | |

The remainder are procured with the GDLS contract.

| Contract of the North-Residue Contract of the North-Residu | A Tracked Combat A Tracked Co | Exhibit F | Exhibit P-5a, Budget Procurement History and Planning | listory ar | nd Planning | | | | | . T | February 1998 | 86 |
|--|--|--|---|---------------|-----------------|------------|-----------------|---------------|---------------|----------|---------------|-------------------|
| Commence and Location Comm | Communication Communicatio | Appropriation / Budget Activity/Serlat No: | | Weapon Syster | m Type: | | P-1 Line Item h | Vomenclature: | | | | |
| Comments: | Sample S | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | | | | | | ABRAMS | JPGRADE PROGI | RAM (GAO | .20) | |
| STRIPSFINK NA REGWNR Various Feb-39 120 | STATISTICS NA | | Contractor and Location | Contract | Location of PCO | Award Date | Date of First | ΩTY | Unit Cost | Specs | Date Revsn | RFP Issue Date |
| NA REOWR Various Pab-37 100 7 100 | NA REOWN NA REOWN National Properties National Propert | Fiscal Years | | and Type | | | Delivery | Each | \$000 | Now? | Avail | |
| NA REOWN Various Feb-97 120 7 Ves | NA | 14. MILSTRIPS/RIK | | | | | | | | | | |
| NA | NA REGWR Various Feb-97 120 4 Yes | FY 96 | NA | REG/WR | | Various | Apr-96 | 100 | 7 | Yes | | Ϋ́ |
| NA REGWR Various Feb-99 120 6 Ves | NA REGWN Various Feb-98 120 6 Ves | FY 97 | VA | REQ/WR | | Various | Feb-97 | 120 | 4 | | | Š |
| NA REOWR REOWR Per-99 120 6 Yes | NA REOWR Various Feb-99 120 6 Yes | FY 98 | NA | REG/WR | | Various | Feb-98 | 120 | 9 | | | Ϋ́ |
| San FLIR Grumman/2 OPTION CECOM Dec-95 Apr-96 60 9 Ves | Same FLIR | FY 99 | NA | REG/WR | | Various | Feb-99 | 120 | 9 | Yes | | Ϋ́ |
| San FLIR Grumman/2 OPTION CECOM May-96 Feb-97 120 9 Ves | Same FLIR Grumman/2 | | | | | | | | | | | |
| San FLIR Grumman/2 | San FLIR Grumman/2 | 15. VIS/1 | | | | | | | | | | |
| Grumman/2 OPTION CECOM May-96 Feb-97 120 8 Yes | San FLIR Grumman/2 OPTION CECOM May-96 Feb-97 120 8 Yes | FY 96/3 | Grumman/2 | OPTION | CECOM | Dec-95 | Apr-96 | 09 | O | | | Sep-9 |
| Grumman/2 OPTION CECOM Apr-97 Feb-99 120 9 Yes | Grumman/2 OPTION CECOM Apr-87 Feb-99 120 9 Yes | FY 97 | Grumman/2 | OPTION | CECOM | May-96 | Feb-97 | 120 | 80 | | | Sep-9. |
| Grumman/2 OPTION CECOM Jun-98 Feb-99 120 9 Yes | Sen FLIR Various SS/FPP CECOM Jun-98 Feb-99 120 9 Yes SS/FPP CECOM Jan-98 Feb-99 120 9 Yes Yes A. U. VIS, Vehicular Intercommunication System /2. Gurmman Aerospace Coop, Bethpage, NY /3. 40 VIS Components were previously procured in Phase I | FY 98 | Grumman/2 | OPTION | CECOM | Apr-97 | Feb-98 | 120 | 6 | | | Sep-9 |
| San FLIR Various SS/FFP CECOM Jan-98 Feb-99 120 805 Yes K8: // . VIS, Vehicular Intercommunication System / 2. Grumman Aerospace Corp. Bethpage, NY // . VIS, Vehicular Intercommunication System // . VIS, Vehicular Intercommunication System // . VIS, Vehicular Intercommunication System // . VIS, Vehicular Intercommunication Phase I | San FLIR Various SS/FFP CECOM Jan-98 Feb-99 120 805 Yes K8: // U.S., Vehicular Intercommunication System / Z. Grumman Aerospace Corp., Behtpagg, NY / 33. 40 VIS Components were previously procured in Phase I Asserting a component of the phase I Asserting a component of the phase I | FY 99 | Grumman/2 | OPTION | CECOM | Jun-98 | Feb-99 | 120 | 6 | | | Sep-9 |
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| /3. 40 VIS Components were previously procured in Phase I | /3. 40 VIS Components were previously procured in Phase I | | System System ge, NY | | | | | | | | 1 | |
| | | /3. 40 VIS Components were previous | y procured in Phase I | | | | | | | | | |

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| LIMA ARMY TANK PLANT, LIMA, OH | H | 10 | 10 | H | 25 | 22 | | 문 | REORDER | ~ | | | 0 | 4 | ဗ | | | 14 | 4 | 4 | | IATE | ie foto | rapopu | ATP is interdependent and does not | doe | + |
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| 1 LIMA ARMY TANK PLANT, LIMA, OH | 1 | 9 | 2 | \dagger | 25 | 22 | | Ĕ | REORDER | ١ | 1 | 1 | ۰ | 1 | | ၈ | † | | 4 | + | - | | 3 | LATP is interdependent and does not | terden | andent | and do | as not | - |
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| COST ELEMENTS | uс | È | ш с > | Each 1 | | AS OF 1 OCT | 20> 10> | O III O | ¬ < Z | т m ю | 2 < C | < 4 G G | 7 D Z | 227 | ∢⊃ ७ | ωmσ | 00+ | z 0 > | ¬ ∢ Z | ппю | Σ < α | 4 G E | ∑ < ≻ | 7 D Z | د ت د م ت م | оше | ⊢ m ∝ | |
| 1. Basic Vehicle | 1 | 95 & Pr | A | 206 | 206 | | | | | | - | Н | | | | | | Н | Н | | | | П | | | | Ц | |
| | - | FY 96 | H | 100 | 100 | | _ | | | | _ | _ | | | | | | | | | | | | | - | | | |
| 1 | - | FY 97 | | 120 | 120 | | H | | | | _ | _ | | | | | | Н | | | | | | | Н | | | |
| | - | FY 98 | | 120 | 120 | | H | | | Н | Н | L | | | | | | | Н | | | | | | Н | | | |
| | - | FY 99 | | 120 | 120 | | H | | | | \vdash | H | L | Ц | Ц | | Н | _ | Н | | | | | | Н | | | |
| | - | FY00 | - | 120 | 120 | | \vdash | | | | | _ | | | | | _ | _ | _ | | | | | | Н | _ | | |
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| | - | FY02 | A | 90 | 0 | 06 | Н | Ц | | < | | Н | | | 8 | 7 | 8 | 7 | 7 8 | 8 | 8 | 8 | 8 | 7 | 9 | \dashv | | |
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| TOTAL | + | | 1 | 1069 | 804 | 265 | 6 | 80 | 6 | 60 | on . | 6 | 10 10 | 6 | 8 | 7 | 80 | 7 | ^ | 60 | 60 | 80 | 8 | ^ | σ. | 8 | + | 23 |
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| W | ۲ | PF | PRODUCTION RATES | RATES | | | MFR | H | | ١ | ۲ | | NIMO | LEAD | ADMIN LEAD TIME | | | MFR | ۲ | TOTAL | AL | E H | REMARKS | KS | | | | |
| | | | | | | REACHED | Number | _ | | Ī | † | Prior | Prior 1 Oct. | 7 | After 1 Oct. | Oct. | Affe | Affer 1 Oct. | + | After 1 Oct. | ë Ö | 3 8 | Pisth | e only | LATP is the only facility in the United | n the U | Inited | |
| R NAME / LOCATION | + | MIN. | 1-8-5 | | MAX. | ţ | | <u> </u> | INITIAL | 1 | † | | ٥ | 4 | " | I | | ± : | + | - | | 5 | 20 00 | a color | 3 | E C | ė | |
| 1 LIMA ARMY TANK PLANT, LIMA, OH | | 9 | 9 | 1 | 25 | 22 | | Ĭ. | REORDER | 1 | † | | ٥ | + | ဂ | I | | 4 | + | - | | 3 | Pisin | terdep | LATP is interdependent and does not | and do | es not | |
| | + | | | | | | | Ž | DECIDENCE | 1 | + | ١ | ١ | + | Ì | | | ١ | t | | ı | star | nd alon | . FM | stand alone. FMS represents | sents | | |
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| | t | | | | | | | Ë | REORDER | | H | | Ш | H | П | | | П | Н | | П | È | Z tan | (S TOF X | M1AZ (anks for Kuwait (218) | (912 | | |
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| THE COLOR VE | O INCITO | 17.0 | | | | P-1 | P-1 Item Nomenclature: | nencla | iture: | Iture: | 900 | 000 | MVGS | 5040 | 6 | | | | - | Date: | | | ű | Eobrigay 1000 | 800 | | |
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| COST ELEMENTS | Т. | ш с > | Each | | `- | 0 O F | Z O > | > < Z | тше | ≥ < Œ | < G & | Σ∢≻ | つコZ | د U ك 2 C A | லநு | 00+ | z 0 > | o m o | > ∢ Z | т m ю | Z A E | A G R | 7 D Z | 704 | < ⊃ © | ωшσ | ⊢шα |
| | 1 95 & Pr | L | 206 | 206 | | | \vdash | L | L | | | H | H | H | L | L | | | | H | H | \vdash | H | L | L | | |
| | 1 FY 96 | ¥ | _ | H | | | Н | H | | | | Н | Н | H | | | | | | | | | Н | _ | | | |
| | 1 FY 97 | Α. | 120 | 120 | | | | | | | | Н | H | Н | | | | | | | - | - | | | | | |
| | 1 FY 98 | | 120 | 120 | | | Н | | | | | Н | | | | | | | | Н | _ | Н | | _ | | | |
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| | 1 FY00 | A | 120 | | | | | | Ц | | | H | | | | | | | | | \dashv | \dashv | - | | Ц | | |
| | 1 FY01 | A | 105 | _ | | | | | | | | H | | | | | | | | \dashv | H | - | - | _ | Ц | | |
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| | 1 FY03 | ٧ | 88 | 15 | 73 | 80 | 7 | 7 7 | 7 | 8 | 80 | 8 | 7 | 8 | | | | | | | | | Н | | | | |
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| TOTAL | | | 1069 | 966 | 73 | 8 | 7 | 7 7 | 7 | 8 | 8 | 6 | 7 | 9 | \dashv | | | | | | \dashv | | \dashv | _ | | | |
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| W | | PRODU | PRODUCTION RATES | SE | | MFR | ä | l | | Γ | | ADM | NLEA | ADMIN LEAD TIME | | L | MFR | Ī | ř | TOTAL | H | REM/ | REMARKS | | | | |
| L | | _ | | | Ä | ED Number | ╗ | | ١ | 1 | Prik | Prior 1 Oct. | H | After 1 Oct. | Oct. | | After 1 Oct. | ن | Afte | After 1 Oct | 1 | ATP I | s the o | nly fac | lity in t | LATP is the only facility in the United | pa |
| R NAME / LOCATION | MIN | 4 | 1-8-5 | MAX. | - | 7 | <u>z</u> | INITIAL | | | | ۰ | 1 | 9 | | - | 4 | 1 | | 4 | <i>"</i> | tates | capabi | e of pr | odnoin | States capable of producing tanks. | |
| 1 LIMA ARMY TANK PLANT, LIMA, OH | 10 | - | 10 | 52 | 22 | | 2 | REORDER | <u>"</u> | | | ٥ | + | က | | 4 | - | 1 | ı | 17 | Ī | ATP is | sinterc | lenend | ent and | ATP is interdependent and does not | lot |
| | | + | | \downarrow | - | _ | <u>≥ ö</u> | INITIAL | ١ | I | | | † | ۱ | | + | ١ | T | | ł | T | tanda | lone. | FMS re | stand alone. FMS represents | ıts | |
| | | + | | - | - | ļ | 2 | INITIAL | | | | | t | ١ | ١ | Ļ | ١ | T | | l | Ť | oprod | nction | with E | ypt for | coproduction with Egypt for kits and | p |
| | | \perp | | | | | Œ | REORDER | H. | П | | | Н | П | | Н | П | | | | Ž M | 1 AZ L | anks to | r Kuw | M1A2 tanks for Kuwait (218) | | |
| | | 4 | | | 4 | _ | ≅lä | INITIAL | | \prod | | | | | | 4 | | T | | | Т | | | | | | |
| | | + | | - | - | + | Z Z | TAL | | I | | | t | | | Ļ | ı | T | L | ١ | Т | | | | | | |
| | ļ | \vdash | | | L | Т | Ē | REORDER | <u>~</u> | Γ | | | t | | | Ļ | | | | | Γ | | | | | | |
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Item No. 19 Page 11 of 11 189

| | | Evhihit D.4 | Exhibit P.40 Budget Item Institication Sheet | em .luctifics | offen Shaet | | | Date: | | | | |
|--|--|-----------------|--|---------------|---------------------------------|------------------------|---------|---------------|--|----------------|-------------|------------|
| | | Lingilia | o, padget it | omeno mo | מנוסוו סוופפר | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 Item Nomenclature: | re: | | | | | |
| PROCUREMEN | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | CMBT VEHS/1/Tra | scked Combat Vehicle | 98 | | | | ABRAMS UPGRAI | ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750) | PROC) (GA0750) | | |
| Program Elements for Code B Items: | S: | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | 181.3 | 297.2 | 258.2 | 253.5 | 262.9 | 242.7 | 153.6 | 144.3 | | | 1793.8 |
| Net Proc (P-1) | 0.0 | 181.3 | 297.2 | 258.2 | 253.5 | 262.9 | 242.7 | 153.6 | 144.3 | | 0.0 | 1793.8 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 0.0 | 181.3 | 297.2 | 258.2 | 253.5 | 262.9 | 242.7 | 153.6 | 144.3 | 0.0 | 0.0 | 1793.8 |
| Fiyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |

DESCRIPTION: Advance procurement for long lead materials to support procurement for the Abrams Upgrade Program.

JUSTIFICATION: Without advance procurement funds, procurement of components, assemblies and raw materials to support procurement, long lead time would not be possible and would cause a break in production.

| | i. | | | | | First System Award Date: | ard Date: | | First System Completion Date: | npletion Date: | | Date: | | |
|--|------------|-----------|--------------|-----------------|---------|--------------------------|-----------------|---|-------------------------------|----------------|--|-------------|---------------|--------|
| Advance Procurement Requirements Analysis-Funding (P-10A) | rements | Analy | sis-Fund | ng (P-10A | 3 | | Jul-96 | | | Oct-98 | | | February 1998 | |
| Appropriation / Budget Activity/Serial No: | | | | | | | -1 Line Item No | P-1 Line Item Nomenclature / Weapon System: | sapon System: | | | | | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | VPNS & TRK | D CMBT VE | HS/1/Tracked | Combat Vehicles | | | | | ABRAMS UP(| 3RADE PROGF | ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750) | C) (GA0750) | | |
| | | | | | | | | (\$ in Millions) | llions) | | | | | |
| | | When | | | | | | | | | | | | |
| | PLT | Rqd | | | | | | | | | | | ဥ | |
| | (mos) | (mos) | Pr Yrs | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | Comp | Total |
| End Item Quantity: | | | | 100 | 120 | 120 | 120 | 120 | 105 | 06 | 88 | | | |
| 1. Basic Vehicle | 18 | 9 | | 77.1 | 193.0 | | 100.2 | 116.9 | 129.5 | 57.3 | 80.8 | 1 | | 7.768 |
| 2. Armor | 19 | 9 | | 20.0 | 7.9 | 8.6 | | 10.2 | 10.6 | 10.8 | 2.2 | | | 81.7 |
| 3. H/TEU | 13 | 9 | | 5.9 | 7.2 | | | | | | | | | 19.7 |
| 4. Engine (DECU) | 20 | | | 2.1 | 2.5 | | | 3.1 | 2.8 | 2.5 | 2.5 | | | 21.7 |
| 5. Transmission | 19 | 9 | | 22.3 | 22.4 | | 23.6 | 24.0 | 21.4 | 18.7 | 18.7 | | | 174.5 |
| 6. Final Drives | 16 | 9 | | 1.4 | 1.5 | | | 4.1 | 6.1 | - | | | | 10.5 |
| 7. Fire Control | 16 | 9 | | 32.5 | 39.3 | | | 1.8 | 1.6 | 1.5 | 1.5 | | | 118.7 |
| 8. Track | 19 | 9 | | 3.3 | 5.7 | | | 5.8 | 5.1 | 4.5 | 4.5 | | | 40.2 |
| 9. Roadwheels | 16 | | | 6.0 | 4.1 | | | 4.1 | 1.3 | - : | 1.1 | | | 10.1 |
| 10. Gun Mounts | 16 | | | 2.1 | 2.1 | | | 2.6 | 2.4 | 2.1 | 2.1 | | | 19.2 |
| 11. Gun | 16 | | | 11.3 | 11.4 | 10.6 | | 12.4 | 11.1 | 6.6 | 6.6 | | | 91.9 |
| 12. Driver's Night Viewer | 13 | | | 0.5 | 9.0 | 0.5 | | 9.0 | 9.0 | 0.5 | 0.5 | | | 4.5 |
| 13. Basic Issue Items | 16 | | | 0.7 | 0.8 | 0.7 | | 0.8 | 0.7 | 9.0 | 9.0 | | | 5.8 |
| 14. MILSTRIPS/RIK | 16 | | | 9.0 | 0.5 | 0.7 | | 0.7 | 9.0 | 0.5 | 0.5 | | | 4.7 |
| 15. VIS | 16 | 9 | | 9.0 | 1.0 | 0. | | | 1.0 | 6.0 | 6.0 | | | 7.7 |
| 26. II Gen FLIR | 20 | | | | | 9.0 | | 80.1 | 52.7 | 41.6 | 17.5 | | | 285.3 |
| 29. Industrial Base/"Shut Down" | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | - | | | | | | | | | |
| Total Advance Drocurement | | | | 181 | 2 297 2 | 258.2 | 253.5 | 262.9 | 242.7 | 153.6 | 144.3 | | | 1793.8 |
| Otal Auvailor Procurentem | | | | 2 | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Description:

* PLT excludes First Article Test (FAT) or other special test requirements for new producers or other factors.

*ALT is based on current long term contracts. ALT increase with new starts/new contractors/new contracts.

PLT includes the 6 months requirement for components prior to tank delivery.

| Advance Procurement Requirements Analy | rements | Analysis-B | sis-Budget Justification (P-10B) | lication (P-1 | (80) | | | Date: February 1998 | y 1998 |
|--|----------|----------------------|----------------------------------|---------------|---|--|----------------|------------------------|--------------|
| Appropriation / Budget Activity/Serial No: | | | | | P-1 Line Item Nomenclature / Weapon System: | / Weapon System: | | | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | THKD CMB | T VEHS / 1 / Tracked | 1 Combat Vehicles | | | ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750) | E PROGRAM (AD) | V PROC) (GA0750) | |
| | | | | | | (\$ in Millions) | | | |
| | | Quantity | | | 1998 | | | 1999 | |
| | PLT | Per | n i | i | Contract | Total | | Contract | Total |
| End Item | (mos) | Assembly | Cost | Č. | Forecast Date | Cost Request | dig. | Forecast Date | Cost Request |
| 1. Basic Vehicle | 18 | • | 0.8 | 120 | 120 Various | 100.2 | 120 | 120 Various | 116.9 |
| 2. Armor | 19 | - | 0.1 | 121 | Jan 98 | | 121 | Jan 99 | 10.2 |
| 3. H/TEU | | | | | | | | | |
| 4. Engine (DECU) | 20 | _ | 0.0 | | | | 120 | | 3.1 |
| 5. Transmission | 19 | | 0.5 | | | N | 120 | | cu |
| 6. Final Drives | 16 | 2 | | | Apr 98 | 4.1 | 240 | Apr 99 | |
| 7. Fire Control | 16 | | | | Varions | | 120 | 120 Various | 1.8 |
| 8. Track | 19 | 156 | | _ | Apr 98 | 5.7 | 18720 | Nov 98 | 5.8 |
| 9. Roadwheels | 16 | | | ਲ | | 1.4 | 3840 | | |
| 10. Gun Mounts | 16 | <u>-</u> | 0.1 | 09 | Apr 98 | 3.3 | 09 | | 2.6 |
| | 16 | _ | 0.1 | | | 15.4 | 120 | | |
| 12. Driver's Night Viewer | 13 | _ | 0.0 | 120 | | 9.0 | 120 | | |
| 13. Basic Issue Items | 16 | _ | 0.0 | 120 | Apr 98 | 0.0 | 120 | Apr 99 | |
| 14. MILSTRIPS/RIK | 16 | - | 0.0 | | Various | 0.7 | 120 | 120 Various | |
| 15. VIS | 16 | - | 0.0 | | | | 120 | | |
| 26. II Gen FLIR | 20 | | 0.7 | 120 | Jan 98 | 84.3 | 120 | | 80.1 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | , | | | | |
| Total Advance Procurement | | | | | | 253.5 | | | 262.9 |
| | | | | | | | | | |

Description:

PLT excludes First Article Test (FAT) or other special test requirements for new producers or other factors.
 ALT is based on current long term contracts. ALT increase with new starts/new contractors/new contracts.
 PLT includes the 6 months requirement for components prior to tank delivery.

| Advance Procurement Requirements Analysis | ements Ans | | s-Present Value Analysis (P-10C) | Analysis | (P-10C) | | | | | Date: | February 1998 | |
|--|-------------------|-------------------|----------------------------------|-------------------|-------------------|---|-------------------|--|-------------------|-------------------|-------------------|----------------------|
| Appropriation / Budget Activity/Serial No: | | | | | P-1 Line Item Non | P-1 Line Item Nomenclature / Weapon System: | on System: | | | | | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | TRKD CMBT VEHS | 1 / Tracked Com | bat Vehicles | | | | ABRAMS U | ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750) | AM (ADV PROC) | (GA0750) | | |
| | | | | | | (\$ in Millions) | llions) | | | | , | T |
| | Pr Yrs | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | Comp | Total |
| Proposal w/o AP Then Year Cost Constant Year Cost Present Value | 658 692 762 | 132 136 146 | 440 447 466 | 501 502 509 | 587 578 571 | 666 651 625 | 668 642 599 | 630 595 540 | 596 552 488 | 675 613 527 | 344 303 251 | 5897 5711 5482 |
| AP Proposal Then Year Cost Constant Year Cost Present Value | 692 753 871 | 280 289 310 | 556 564 588 | 462 463 469 | 582 574 566 | 676 660 634 | 647 622 581 | 541 511 464 | 586 543 480 | 531 482 414 | 344 303 251 | 5897 5764 5626 |
| AP Savings (Difference) Then Year Cost Constant Year Cost Present Value | 34 109 | 148 153 164 | 116 118 123 | -39 -39 -40 | က် က် က် | | -20 -20 -18 | -89 -84 -76 | တ္ တ္ ထု | -144 -131 | | 53 145 |
| | | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | | |

| Ontract Actual Contract Contract Orecast Contract C | | 1997 | | | ۳ | 1998 | | 1999 |
|--|------|-------------------------|--------|----------|-------|----------|-------|------------|
| Contract Cost Cost Cost Other Cost Co | act | Actual | Total | Actual | | Contract | | Contract |
| Various 142.8 142.7 120 Various 142.8 142.7 120 Various 142.8 142.7 120 Various 147.8 142.7 120 Various 147.8 142.7 120 Various 148.9 149. | ast | Contract | Cost | Contract | Ş | Forecast | Ą | Forecast |
| 97 Various 142.8 142.7 120 Various 97 Rat-97 9.8 9.8 120 Jan-98 97 Apr-97 3.1 120 Jan-98 120 96 Sep-97 23.4 23.4 120 Jan-98 97 Apr-97 3.1 3.1 120 Jan-98 97 Various 38.8 120 Apr-98 18 97 Nov-96 5.7 5.7 18720 Apr-98 18 97 Feb-97 2.6 60 Apr-98 18 97 Feb-97 0.5 1.0 Apr-98 38 97 Apr-97 1.0 1.0 120 Apr-98 97 Apr-97 0.5 0.5 120 Jul-98 97 Apr-97 0.0 0.0 120 Jul-98 97 Apr-97 0.0 0.0 120 Jul-98 97 Apr-97 0.0 0.0 120 Jul-98 97 Apr-97 0.0 0.0 120 Jul-98 97 Apr-97 0.0 0.0 120 Jul-98 97 Apr-97 0.0 | Π | | | | | | | |
| 97 Feb-97 9.8 9.8 120 Jan-98 120 | | Varions | 142.8 | 142.7 | 120 | | 120 | |
| 97 | r-97 | Feb-97 | 9.6 | 9.8 | 120 | Jan-98 | 120 | |
| 97 | -97 | Mar-97 | 6.7 | 6.7 | | | | |
| 96 Sep-97 23.4 23.4 120 Feb-98 17 Various 38.8 38.8 120 Various 38.8 38.8 120 Various 38.8 38.8 120 Various 38.8 38.8 120 Various 38.8 38.8 120 Various 38.8 38.8 120 Various 39.7 Apr-97 1.0 1.0 120 Various 37 Apr-97 1.0 1.0 120 Various 37 Apr-97 39.0 3.0 120 Various 37 Apr-97 39.0 3.0 120 Various 37 Apr-97 30.0 3.0 120 Various 37 Apr-97 30.0 3.0 120 Various 37 Apr-97 30.0 3.0 120 Various 37 Apr-97 30.0 3.0 120 Various 37 Apr-97 30.0 3.0 120 Various 37 Apr-97 30.0 3.0 120 Various 37 Apr-97 30.0 3.0 120 Various 37 Apr-97 30.0 3.0 120 Various 37 Apr-97 30.0 3.0 120 Various 37 Apr-98 3.0 3.0 120 Various 37 Apr-98 3.0 3.0 120 Various 37 Apr-98 3.0 3.0 120 Various 37 Apr-98 3.0 3.0 120 Various 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | -97 | | 3.1 | 3.1 | 120 | Jan-98 | 120 | Dec-98 |
| 97 Jan-97 1.4 1.4 240 Apr-98 2 Various 38.8 38.8 120 Various 18.7 5.7 18720 Apr-98 18.9 39.0 5.7 18720 Apr-98 38.9 39.8 120 Various 39.7 Apr-97 1.0 1.0 120 Various 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 1.0 120 Jan-98 39.7 Apr-97 1.0 120 Jan-98 39.0 120 Jan-9 | 96 | | 23.4 | 23.4 | 120 | Feb-98 | 120 | Jan-98 |
| Various 38.8 38.8 120 Various 18.7 Nov-96 5.7 18720 Apr-98 18. 7 Nov-96 5.7 18720 Apr-98 18. 7 Feb-97 2.6 2.6 6.0 Apr-98 38 7 Feb-97 0.5 0.6 120 Jul-98 7 Apr-97 1.0 1.0 120 Jun-98 7 Apr-87 1.0 1.0 120 Jun-98 7 Apr-87 9.0 9.0 120 Jun-98 7 Apr-87 9.0 9.0 120 Jun-98 7 Contracts. | -97 | Jan-97 | 1.4 | 4.1 | 240 | | 240 | |
| 97 Nov-96 5.7 18720 Apr-98 187 97 Dec-96 1.4 1.4 3840 Apr-98 38 97 Feb-97 2.6 2.6 60 Apr-98 39 97 Mar-97 10.6 10.6 120 Apr-98 39 97 Apr-97 0.7 0.8 120 Apr-98 39 97 Apr-97 1.0 1.0 120 Jun-98 39 97 Apr-97 1.0 1.0 120 Jun-98 39 97 Apr-97 1.0 1.0 120 Jun-98 39 97 Apr-97 258.2 258.2 358 | | Varions | 38.8 | 38.8 | 120 | Vari | 120 | Var |
| 97 Dec-96 1.4 1.4 3840 Apr-98 38 97 Feb-97 2.6 2.6 60 Apr-98 97 Mar-97 10.6 10.6 120 Jul-98 97 Sep-97 0.7 0.8 120 Apr-98 97 Apr-97 1.0 1.0 120 Jun-98 97 Apr-97 1.0 1.0 120 Jun-98 97 Apr-97 258.2 258.2 7 Contracts. | -97 | Nov-96 | 5.7 | 5.7 | 18720 | | 18720 | _ |
| 97 Feb-97 2.6 6.0 Apr-98 97 Mar-97 10.6 10.6 120 Apr-98 97 Sep-97 0.5 0.6 120 Apr-98 97 Feb-97 0.7 0.8 120 Apr-98 97 Apr-97 1.0 1.0 120 Jun-98 97 Apr-97 9.0 9.0 120 Jan-98 97 Apr-97 9.0 9.0 120 Jan-98 97 Apr-97 9.0 9.0 120 Jan-98 98 Apr-97 9.0 9.0 120 Jan-98 99 Apr-97 9.0 9.0 120 Jan-98 99 Apr-97 9.0 9.0 120 Jan-98 99 Apr-97 9.0 9.0 120 Jan-98 | r-97 | Dec-96 | 4.1 | 1,4 | 3840 | | 3840 | |
| 97 Mar-97 10.6 10.6 120 Apr-98 97 86-97 0.5 0.6 120 Jul-98 97 86-97 0.5 0.6 120 Jul-98 97 0.7 0.8 120 Apr-98 97 0.7 0.5 120 Various 9.7 Apr-97 1.0 1.0 1.0 Jun-98 9.0 9.0 120 Jan-98 9.0 9.0 120 Jan-98 9.0 9.0 120 Jan-98 9.0 9.0 120 Jan-98 9.0 9.0 120 Jan-98 9.0 9.0 120 Jan-98 9.0 9.0 120 Jan-98 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 | r-97 | Feb-97 | 2.6 | 2.6 | 9 | Apr-98 | 9 | Apr-99 |
| 97 Sep-97 0.5 0.6 120 Jul-98 97 0.5 0.6 120 Jul-98 97 0.7 0.8 120 Apr-98 97 0.7 0.5 120 Various 97 Apr-97 1.0 1.0 120 Jun-98 97 Apr-97 9.0 9.0 120 Jun-98 97 Apr-97 9.0 9.0 120 Jan-98 97 Apr-97 9.0 9.0 120 Jan-98 97 Apr-97 9.0 9.0 120 Jan-98 9.0 1 | r-97 | Mar-97 | 10.6 | 10.6 | 120 | | 120 | |
| 97 Feb-97 0.7 0.8 120 Apr-98 97 Various 0.7 0.5 120 Various 9.0 1.0 120 Jun-98 9.0 9.0 120 Jun-98 9.0 9.0 120 Jun-98 9.0 9.0 120 Jun-98 9.0 9.0 120 Jun-98 9.0 9.0 120 Jun-98 9.0 9.0 120 Jun-98 9.0 9.0 120 Jun-98 9.0 9.0 120 Jun-98 9.0 9.0 120 Jun-98 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 | 1-97 | Sep-97 | 0.5 | 9.0 | 120 | | 120 | |
| Various 0.7 0.5 120 Various 97 40-97 1.0 120 120 Jun-98 9.0 9.0 120 Jan-98 9.0 9.0 120 Jan-98 9.0 9.0 120 Jan-98 9.0 9.0 120 Jan-98 9.0 9.0 120 Jan-98 9.0 | 76-/ | Feb-97 | 0.7 | 0.8 | 120 | | 120 | |
| 97 Apr-97 1.0 1.0 Jun-98 9.0 4pr-97 9.0 Jun-98 9.0 4pr-97 9.0 4pr-98 9.0 4pr- | | Various | 0.7 | 0.5 | 120 | Vari | 120 | Vari |
| 258.2 258.2 | -97 | Apr-97 | 1.0 | C | 120 | | 120 | |
| 258.2 | -07 | Anr-97 | 0 0 | 0 | 120 | | 12 | |
| 258.2 | 5 | | | 2 | | | | |
| 258.2 | | | | | | | | |
| 7007 | | | 0 030 | | | | | |
| | | | 7.00.7 | | | | | |
| Exhibit P-10 (| e ş | r factors. ontracts. | | | : | | | |
| . Exhibit P-10 (| | | | | | | | |
| | | | | : | | ! | Ж | hibit P-10 |

February 1998

Advance Procurement Requirements Analysis-Execution (P-10D)

PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles

Forecast

ş

Request Cost Total

Contract Actual Date

Forecast Contract

Date

ğ

PLT (mos)

End Item

1996

Contract Date

Actual Contract Cost

May-96 Mar-96 Nov-95

May-96

120 Various 122 Mar-9 240 May-6 120 Mar-6 120 Dec-6

Mar-96

Mar-96

Various

120 Various 121 Mar-8 240 Mar-5 120 Dec-240 Mar-120 Various 18720 Mar-120 Mar-120 Mar-120 Mar-120 Mar-120 Mar-120 Mar-120 Mar-120 Mar-120 Mar-120 Mar-120 Various

Mar-96 Mar-96 Apr-96 96-unf May-96

Mar-96 Mar-96

Apr-96 Apr-96 Mar-96

Driver's Night Viewer

Gun Mounts Roadwheels

6 <u>ö</u> gru

Driver's Night Viewe
 Basic Issue Items
 MILSTRIPS/RIK
 VIS
 II Gen FLIR

3840 60 120 120

Mar-96

Mar-96

Various

120

0.6 0.8 0.5

May-96

Apr-96

Varions

193.0 7.9 7.2 2.5 22.4 1.5 1.5 39.3 5.7 1.4 1.4

Various Various

Mar-96 Dec-95 Mar-96

1. Basic Vehicle
2. Armor
3. H/TEU
4. Engine (DECU)
5. Transmission
6. Final Drives
7. Fire Control
8. Track

Description:

Fotal Advance Procurement

297.2

297.2

^{*} PLT excludes First Article Test (FAT) or other special test requirements for new producers or other ALT is based on current long term contracts. ALT increase with new starts/new contractors/new co

| Advance Procurem | ent Requir | ements | Analysis- | Obligatio | ns/Expen | ditures (| P-10E) | | | | | <u>a</u> | Date: | February 1998 | |
|--|--|--------------|--------------|----------------|---------------|-----------|------------------|---|-----------------|-------------------|-------------|--|----------|---------------|----------------|
| Appropriation / Budget Activity/Serial No: | rial No: | | | 0 | | | | P-1 Line item Nomenclature / Weapon System: | menclature / We | apon System: | | | | | |
| d | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | - WPNS & TRK | D CMBT VEHS, | /1/Tracked Col | mbat Vehicles | | | | | ABRAMS UPG | RADE PROGRA | ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750) | (GA0750) | | |
| | | | | | | (\$) | (\$ in Millions) | | | | | | ľ | | : |
| | Total. | | 1005 | | | | FY 96 | 98 | 1006 | | | | | Ohl/Fvn | Ending |
| | Program | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Juc | Aug | Sep | (Cum) | (Cum) |
| 200 | , | | | | | | ÷ | | | | | | | | |
| Obl Plan Actual | 297.2 | | <u> </u> | 23.5 | 28.8 | 9.4 | 37.0 33.6 | 15.3 | 12.0 8.2 | £. 8 . | 168.4 | 5.2 84.1 | 65.4 | 297.2 | 29.3 |
| Exp Plan Actual | 297.2 | | - | | | | | 4 4 | यं यं | øć øć | | 5.1 4.5 | 5.1 | 11.8 | 285.4 |
| 6 | | | | | | | | | | | | | | | |
| Obi Plan Actual | 258.2 258.2 | | | | , | | | | | | | | | | 258.2 |
| Exp Plan Actual | 258.2 | | | | | | | | | | | | | • | 258.2 258.2 |
| FY 98 Obl Plan | 253.5 | | | | | | | | | *** | | | | | 253.5 |
| FY 99 Obl Plan | 262.9 | | | | | | | | | | | | | | 262.9 |
| | | | | | | | | | | | | | | | |
| Narrative: | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| Appropriation / Budget Activity/Serlal No: | /Serial No: | | | | | | Г | 2-1 Line Item No | P-1 Line Item Nomenclature / Weapon System: | apon System: | | | | | |
|--|--|--------------|--------------|-----------------|---------------|------|------------------|------------------|---|--------------|-------------|--|--------------|----------------|---------|
| | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | F WPNS & TRK | D CMBT VEHS, | (1) Tracked Co. | mbat Vehicles | | | | | ABRAMS UPC | SRADE PROGE | ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750) | C) (GA0750) | | |
| | | | | | | \$) | (\$ in Millions) | | | | | | | | |
| | | | | | | | FY S | 97 | | | | | | Total | Ending |
| | Starting | | 1996 | | | | | | 1997 | | | | | ObVExp | Balance |
| | Balance | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | (Cnm) | (Cum) |
| FY 96 Obl Plan Actual | .0 | | | 1.0 | 11.2 | 11.9 | | -1.9 | 7:- | 7.8 | | | | 29.3 | o o |
| Exp Plan Actual | 285.4 | 9.6 | 4.00 4.00 | 9.8 6.9 | 9.6 | 9.4 | 9.4 | 9.4 | 9.4 | 9.5 13.3 | 9.5 19.0 | 9.4 | 9.4 6.1 | 113.0 | 172.4 |
| FY 97 Obi Plan Actual | 258.2 258.2 | | 5.7 | 10.7 | 7.1 | 46.1 | 25.1 20.4 | 33.4 12.5 | 8. S. S. S. S. S. S. S. S. S. S. S. S. S. | 6.0 | 39.2 | 42.4 69.0 | 39.0 61.3 | 258.2 256.5 | 0. |
| Exp Plan Actual | 258.2 | | | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 3.7 | 18.2 | 240.0 |
| FY 98 Obt Plan | 253.5 | | | | | | | | | | | | | | 253.5 |
| FY 99 Obi Plan | 262.9 | | | | | | | | | | | | | | 262.9 |
| Narrative: | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| Appropriation / Budget Activity/Serial No: | /Serial No: | | | | | | | P-1 Line Item N | P-1 Line Item Nomenclature / Weapon System: | eapon System: | 20000 | pon System: | 040760 | | |
|--|--|--------------|-------------|------------------|----------------|------|------------------|-----------------|---|---------------|------------|--------------|-------------|---------|----------------|
| | PROCUREMENT OF WPNS & THKD CMB1 VEHS / 1 / Tracked Combat Venicles | F WPNS & THK | D CMBT VEHS | / 1 / Tracked Co | ombat Venicies | \$) | (\$ in Millions) | | | ABRAMS UP | GHADE PHOG | HAM (ADV PRO | c) (GANTON) | | |
| | | | | | | | FY 98 | 98 | | | | | Γ | Total | Ending |
| | Starting | | 1997 | | | | | | 1998 | | | | | Obl/Exp | Bafance |
| | Balance | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | (Crum) | (Cum) |
| FY 96 Obl Plan Actual | 0. | | | 0. | | | | | | | | | | 0. | 0, 0, |
| Exp Plan Actual | 172,4 159.4 | 8.6 | 8.6 | 13.1 | 8.6 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 104.0 | 68.4 105.4 |
| FY 97 Obl Pian Actual | 0. | O. | 4.1 | | | | | | | | | | | 1.5 | o vi |
| Exp Plan Actual | 240.0 246.8 | 9.0 | 8.0 7.8 | 11.5 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 96.0 | 144.0 224.5 |
| FY 98 Obl Plan | 253.5 | | | | 174.1 | 23.6 | | 29.0 | 8.0 | 2.0 | 1.1 | 13.8 | 1.9 | 253.5 | 0. |
| FY 99 Obl Plan | 262.9 | | | | | | | | | | | | | | 262.9 |
| Narrative: | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| Starting 1998 Balance Oct Nov Dec Obl Plan Actual Exp Plan 68.4 2.8 2.9 2.8 2.8 | Jan Feb | FY 99 b Mar | | 1999 | | | | П | Total | Ending |
|---|---------|----------------|------|------|-----|-----|------|-----|---------|---------------|
| Starting 1998 Balance Oct Nov Dec .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 | | ΙН | | 1999 | | | | | 100 | Ralance |
| FY 96 .00 Nov Dec 68.4 2.8 2.9 159.4 | +- | Н | | | | | | | Concexp | , |
| 68.4 2.8 2.9 | | | Apr | May | Jun | Jul | Aug | Sep | (Cum) | (Cum) |
| 68.4 2.8 2.9 159.4 | | | | | | | | | | 0. |
| | 2.8 | 2.8 | 2.9 | 9.3 | 2.9 | 2.9 | 2.9 | 2.9 | 34.2 | 34.2 159.4 |
| FY 97 Obi Plan Actual 63.0 | | | | | | | | | | .0 63.0 |
| Exp Plan 144.0 7.3 7.4 7.3 Actual 246.8 | 7.3 | 7.3 7.3 | 7.3 | 7.4 | 7.3 | 7.4 | 7.4 | 7.4 | 88.1 | 55.9 246.8 |
| Dbi Plan .0 | | | | | | | | | | o, |
| FY 99 262.9 5.8 77.6 | 140.2 | | 19.6 | . 4: | 3.7 | ō. | 11.8 | 2.2 | 262.9 | 0. |
| | | | | | | | | | | |

| Starting | PROCLICILISTER TO YAMPING A THOS CHART VEHS 1 / Triboles Conhard Vehicles Sharting Cart Now Dec Jan Fieb Mart Apr May Jun Jul Aug Sep Count Cart Now Car | Fig. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | Advance Procure | ment Requi | rements | Analysis | -Obligati | ous/Expe | nditures | (P-10E) | P-1 Une Item N | P-1 Line Item Nomenclature / Weapon System: | sapon System: | | | | February 1998 | |
|--|--|--|--------------------|---------------|--------------|--------------|------------------|----------------|----------|--------------|----------------|---|---------------|-------------|--------------|--------------------|---------------|------------|
| Starting | Sharing Shar | Starting | | PROCUREMENTO | F WPNS & TRK | CO CMBT VEHS | 7.1 / Tracked Ca | ombat Vehicles | | | | | ABRAMS UP | 3RADE PROGR | AM (ADV PROC | C) (GA0750) | | |
| Starting | Starting | Surfing Striftin | | | | | | | | in Millions) | | | | | | | | |
| FY 96 Signature Oct Nov Dac Jan Feb Mar Apr May Jun Jun Aug Sopo FY 96 .0 <t< th=""><th> Starting Starting 1999 1990 </th><th> Sharking Sharking</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>FΥ</th><th>00</th><th></th><th></th><th></th><th></th><th></th><th>Total</th><th>Ending</th></t<> | Starting Starting 1999 1990 | Sharking | | | | | | | | FΥ | 00 | | | | | | Total | Ending |
| FY 96 .0 Cot Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Sep Sep Sep Sep Sep Sep Sep Sep Sep | FY 95 | FY 99 | | Starting | | 1999 | | | | | | 2000 | | | | | Obl/Exp | Balance |
| FY 96 .0 34.2 1.4 1.4 1.4 1.4 1.4 1.5 1.5 1.5 159.4 2.4 2.4 2.4 2.3 2.3 2.3 2.3 2.3 8.9 FY 96 .0 | FY 96 0 FY 96 | FY 96 0 0 14 14 14 14 14 15 15 15 15 172 172 172 172 172 172 172 172 172 172 | | Balance | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | (Cum) | (Cnm) |
| FY 97 1.4 1.4 1.4 1.4 1.5 1.5 1.5 1.5 FY 98 1.0 1.0 1.4 1.4 1.4 1.4 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | FY 97 1.4 1.4 1.4 1.4 1.4 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | FY 97 630 7.2 | | o: | | | | | | | | | | | | | | 0. |
| FY 98 FY 98 FY 98 FY 98 FY 99 | FY 98 .00 E30 E24 E24 E24 E24 E23 E23 E23 E23 E23 E999 E7999 | FY 970 63.0 55.9 2.4 2.4 2.4 2.4 2.4 2.4 2.5 2.3 2.3 2.3 2.3 2.3 2.3 2.3 | Exp Plan Actual | 34.2 159.4 | | | | | | | | | 1.5 | 1.5 | 1.5 | . 3. | 17.2 | 159.4 |
| FY 98 | FY 98000 | FY 96 .0 2.4 2.4 2.4 2.4 2.3 2.3 2.3 2.3 2.3 2.3 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 | | 0.63.0 | | | | | | | | | | - | | | | .0 63.0 |
| FY 98 | FY 98 | FY 980 | Exp Plan Actual | 55.9 246.8 | | | | | | | | | 23.3 | 2.3 | 2.3 | 2.3 | 28.2 | 27.7 |
| | | | | 0. | | | | | | | | | | | | | | |
| | Narrative: | Narrative: | | | | | | | | | | | | | | | | |
| Narrative: | | | Narrative: | | | | | | | | | | | | | | | |

| Advance Procurement Requirements Analysis-Obligations/Expenditures (P-10E) | ment Requi | rements | Analysis | Obligatic | ns/Expe | nditures | _ [| | | | | | | February 1998 | |
|--|--|-------------|--------------|------------------|----------------|----------|------------------|-----------------|---|---------------|--|--------------|-------------|---------------|---------------|
| Appropriation / Budget Activity | //Serial No: | | | | | | | P-1 Line Item N | P-1 Line Item Nomenclature / Weapon System: | eapon System: | | | | | |
| | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | F WPNS & TR | (D CMBT VEHS | / 1 / Tracked Ca | ombat Vehicles | | | | | ABRAMS UP | ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750) | RAM (ADV PRO | C) (GA0750) | | |
| | | | | | | \$ | (\$ in Millions) | 1 | | | | | | , | 1 |
| | Starting | | 2000 | | | | | 5 | 2001 | | | | | Obl/Exp | Balance |
| | Balance | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | (Cum) | (Cum) |
| FY 96 Obl Plan Actual | O. | | | | | | | | | | | | | | 0. |
| Exp Plan Actual | 159.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 6. | 1.8 | 1.8 | 1.7 | 17.0 | .0 |
| FY 97 Obl Plan Actual | 0. 63.0 | | | | | | | | | | | | | | o. 63.0 |
| Exp Plan Actual | 27.7 246.8 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 15.6 | 12.1 246.8 |
| FY 98 Obl Plan | O. | | | | | | | | | | | | | | o. |
| FY 99 Obl Plan | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Narrative: |] | |] | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| Starting Balance Oct | 2001 Nov | 1 / Tracked Con | nbat Vehicles | \$) | (\$ in Millions) | | | ABRAMS UP | GRADE PROGE | ABRAMS UPGRADE PROGRAM (ADV PROC) (GA0750) | C) (GA0750) | | |
|-----------------------------------|-------------|-----------------|---------------|-----|------------------|-----|------|-----------|-------------|--|-------------|--|------------|
| Starting Balance Oct | 2001 Nov | | | \$) | in Millions) | | | | | | | The second name of the second na | |
| Starting Balance Oct | 2001 Nov | | | | - | | | | | | | | |
| Starting Balance Oct | 2001 Nov | | | | FY 02 | 02 | | | | | | Total | Ending |
| Balance Oct | Nov | | | | | | 2002 | | | | | Obl/Exp | Balance |
| FY 96 | | Sec Dec | Jan | Feb | Mar | Apr | May | Jun | Inc. | Aug | Sep | (Cnm) | (Cum) |
| Actual | | | | | | | | | | | | | 0. |
| Exp Plan .0 Actual 159.4 | | | | | | | | | | | | | .0 |
| FY 97 Obi Plan Actual 63.0 | | | | | | | | | | | | | 0. 63.0 |
| Exp Plan 1.1 Actual 246.8 | 7 | 1. | 7 | 7 | Ţ: | 7 | 7: | 1: | 1.2 | 1.0 | | 12.1 | 246.8 |
| FY 98 Obi Plan | | | | | | | | | | | | | |
| FY 99 Obl Plan | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| P-40, | Sheet |
|---------|--------------------|
| Exhibit | Justification |
| | Budget Item |
| | Budget |

| | | | | | | | | Date: | | | | |
|--|--|-----------------|---|--------------|---------------------------------|------------------------|---------------|--------------|--|---------------|----------------|------------|
| | | Exhibit P-4 | Exhibit P-40, Budget Item Justification Sheet | em Justifica | tion Sheet | | - | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | No: | | | | | P-1 Item Nomenclature: | ıre: | | | | | |
| PROCUREMENT | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | SMBT VEHS/1/Tra | icked Combat Vehicle | ž. | | | | ITEMS LESS T | ITEMS LESS THAN \$2.0M (TCV-WTCV) (GL3100) | TCV) (GL3100) | | |
| Program Elements for Code B Items: | | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 17.5 | 0.0 | 0:0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 18.3 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 17.5 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 18.3 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 17.5 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 18.3 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| DESCRIPTION: Provides for procurement/assembly of full tracked vehicle organizational maintenance tool/shop sets. This equipment has multi-applications and is | vides for proc | surement/ass | sembly of full | tracked veh | icle organiza | tional mainte | nance tool/si | nop sets. Th | is equipment | has multi-at | oplications an | si E |

essential for effective maintenance on all tracked vehicles.

JUSTIFICATION: Required to provide organizational maintenance personnel with equipment essential to maintain full tracked vehicles in an acceptable state of readiness. Funding of this program will establish and maintain the operational capability of the Bradley Fighting Vehicle, M1 Tank, etc.

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| 199 | 1 | ١ | UnitCost | \$000 | | | | |
| February 1998 | 1 | ı | _ | 4 | e | 7 | - | |
| | ١ | FY 99 | Q _t | Each | • | | | |
| Date: | 4 | ۲ | _ | | <u>е</u> | 0 | o | N |
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| | ١ | ı | TotalCost | \$000 | | | | |
| Weapon System Type: | | 4 | _ | 4 | 10 | 6 | | |
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| spon § | ١ | | UnitCost | \$000 | | | | |
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| | | FY 98 | Qt | Each | ., | | | |
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| ŝ | ١ | | Cost | | 44 | 92 | | 136 |
| | ١ | | TotalCost | \$000 | | | | |
| T | | 4 | T | Ц | | | | |
| slature N \$2.0 | (GL3100) | ı | UnitCost | g | F | | | |
| omen S THA | 9 | ١ | Juit | \$000 | | | | |
| tem N | | | _ | \sqcup | _ | | | |
| P-1 Line tem Nomenclature: ITEMS LESS THAN \$2.0M (TCV-WTCV) | | FY 97 | Ωţ | Each | | | | |
| P-1 | 4 | ۲ | | | - | | | F |
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| | 1 | | TotalCost | \$000 | | | | |
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| I No: | ehicle | | UnitCost | \$000 | | | | |
| //Serie S & TF | nbat V | | | | | | | |
| Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT | VEHS / 1 / Tracked Combat Vehicles | FY 96 | oty. | Each | - | | • | |
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| Nea | į | | Cost Elements | | _ | | | |
| 3, 5 | 10 | WTCV | en | | Ε | 2 S | Αt | |
| F 5 | 3 | 3 | StE | П | pair | Sup | Ntac Vh | |
| Exhibit P-5, Weapon | 5 | | ပိ | | onts / Re | aint, | S the | |
| Exhibit P-5, Weapon | | | | | enc) | T. ₽ | 7, 7 1, 7 | |
| 1 | | | | | p St | Se | විසි | |
| | | | | | Shop Set, Contact and Emergency Repair, FM | 2. Tool Set, Full Tracked Vehicle, Org Maint, Sup 2 | 3. Shop Equip, Contact Repair Shop, Light Vhl Mtd | ТОТАГ |
| | | | | Ш | - a | ر ج ا | B. 3. | 7 |

| | | | | | | | ľ | Date: | | | | |
|--|--|---------------------|---------------------|---|---------------------------------|------------------------|---------|---------------|---|----------------|-------------|------------|
| | | Exhibit P-4 | 0, Budget It | Exhibit P-40, Budget Item Justification Sheet | ation Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 Item Nomenclature: | :0: | | | | | |
| PROCUREMENT | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 1 / Tracked Combat Vehicles | CMBT VEHS / 1 / Tra | icked Combat Vehicl | 98 | | | | PRODUCTION BA | PRODUCTION BASE SUPPORT (TCV-WTCV) (GA0050) | WTCV) (GA0050) | | |
| Program Elements for Code B llems: | ij | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 1430.0 | 14.4 | 5.3 | 9.3 | 8.8 | 8.9 | 9.1 | 9.5 | 10.2 | 10.2 | 0.0 | 1515.6 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 1430.0 | 14.4 | 5.3 | 9.3 | 8.8 | 8.9 | 9.1 | 9.5 | 10.2 | 10.2 | 0.0 | 1515.6 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 1430.0 | 14.4 | 5.3 | 9.3 | 8.8 | 8.9 | 9.1 | 9.2 | 10.2 | 10.2 | 0.0 | 1515.6 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| | | | | | | | | | | | | |

DESCRIPTION: This program provides for Provision of Industrial Facilities (PIF). Funds are used to establish, modernize, expand or replace facilities owned by the Army. It provides Production Support Equipment Replacement (PSR) and Modernization (MOD) to Government owned equipment, real property used in production and production testing of Weapons and Tracked Combat Vehicles. This program also provides funding for the Layaway of Industrial Facilities (LIF) for preservation of equipment and Environmental (Env) restoration for the portions of plants which are no longer required for active production.

JUSTIFICATION: The FY99 request supports PSR to Government owned equipment at Lima Army Tank Plant. Included are a waste water discharge monitoring and separation system, repaving of roadways, roof/downspouts, and design/installation of a point source air ventilation system. Also, funding will be used to replace and rehabilitate unscheduled/unplanned emergency repairs of Government owned production machinery, equipment and facility items currently in use at the contractor plant in Muskegon, MI. and Scranton, Pa.

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| | | | | |
| | | | | |
| FY 1999 | 8.511 | 0.350 | | 8.861 |
| FY 1998 | 8.401 | 0.357 | | 8.758 |
| FY 1997 | 8.926 | 0.360 | | 9.286 |
| FY 1996 | 3.443 | 0.432 | 1.448 | 5.323 |
| | 占 | 님 | ENV | TOTAL |
| | | | | |
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| Exhibit P-5, Weapon | | Appropriation/ Budget Activity/Serial No: | iget Activity/ | Serial No: | | P-1 Line Item | P-1 Line Item Nomenclature: | POBT (TCV. | - | Weapon System Type | | Date: | February 1998 |
|--|---|---|----------------|--------------|-----------|---------------|-----------------------------|------------|----------|--------------------|-----------|-------|---------------|
| WTCV Cost Analysis | | VEHS / 1 / Tracked Combat Vehicles | acked Comt | oat Vehicles | | | WTCV) (GA0050) | 3) | | | | | |
| WTCV | a | | FY 96 | | | FY 97 | | | FY 98 | | | FY 99 | |
| ents | 8 | TotalCost | Ofy | UnitCost | TotalCost | Oty | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Qty | UnitCost |
| | П | \$000 | Each | \$000 | \$000 | Each | 000\$ | 000\$ | Each | 000\$ | 000\$ | Each | \$000 |
| 49X3002 Omnibus Design Provided for design of construction/equip projects in support of Tank production. | | \$0.394 | | | | | | | | | | | |
| 49X4281 LIF, Layaway/Redistribution Various Government & Contractor Facilities Provides for plant clearance and restoration of those areas no longer required for active production. Packing, crating, handling & transportation GFE retained for future prod. | | \$0.432 | | | \$0.360 | | | \$0.357 | | | \$0.350 | | |
| 49X6037 PSR, LIMA Army Tank Plant (LATP) Provides non-routine maintenance of real property facilities, I.P.E. purchase & rehab. of production equipment | | \$2.299 | | | \$4.427 | | | \$5.626 | | | \$4.000 | | |
| 49X6040 PSR, Scranton/Muskegon Facilities Provides replacement/rehab of Government owned equipment at contractor plants. | | \$0.750 | | | \$4.499 | | | \$2.775 | | | \$3.711 | | |
| 49X6042 PSR, LIMA Army Tank Plant (LATP) Provides elimination of buildings/restoring sites to ensure comp w/Pollution Prevention Executive Order 12856. | | | | | | | | | A REPORT | | \$0.304 | | |
| 49X6047 PSR, LIMA Army Tank Plant (LATP) Provides compliance with Ohio Dept. of Trans. resurfacing cycle-asphaltic/concrete | | | | | | | | | | | \$0.218 | | |
| 49X6048 PSR, LIMA Army Tank Plant (LATP) Provides for roof/downspout replacement | | | | | | | | | | | \$0.278 | | |
| 19X8173 ENV, Stratford Army Engine Plant Provided for correction of OSHA/EPA deficiencies/minimum facility project in support of the aircraft and tank production. | | \$1.448 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| TOTAL | | \$5.323 | | | \$9.286 | | | \$8.758 | | | \$8.861 | | |

| | | Exhibit P-4 | Exhibit P-40, Budget Item Justification Sheet | em Justifica | ation Sheet | | | Oate: | | February 1998 | | |
|--|---|----------------------|---|--------------|---------------------------------|------------------------|---------|---------------|--|-----------------|-------------|------------|
| Appropriation / Budget Activity/Serial No: | lal No: | | | | | P-1 item Nomenclature: | 16: | | | | | |
| PROCUREMENT OF | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat \ | T VEHS / 2 / Weapons | and Other Combat | Vehicles | | | | ARMOR MACHINE | ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000) | SERIES (G13000) | | |
| Program Elements for Code B Items: | 18: | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | | | | ∢ | | | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | 2034 | 1500 | 673 | 2154 | 1746 | | | | 8107 |
| Gross Cost | 0.0 | 0.0 | 0.0 | 20.3 | 14.7 | 6.5 | 18.4 | 17.8 | 0.0 | 0.0 | 0.0 | 77.7 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | | 0.0 | 0.0 | 20.3 | 14.7 | 6.5 | 18.4 | 17.8 | 0.0 | 0.0 | 0.0 | 7.77 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 0.0 | 0.0 | 0.0 | 20.3 | 14.7 | 6.5 | 18.4 | 17.8 | 0.0 | 0.0 | 0.0 | 7.77 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| i do mai do cad | | | | | | | | | | | | |

permits rapid changing of the barrels. The principle difference between the M240 and the M240B is the addition of a flash suppressor, front sight, carrying handle for the DESCRIPTION: The M240B Machine Gun is a ground version of the M240 Machine Gun, the 7.62mm Medium Machine Gun class weapon designed as a coaxial/pintlebarrel, buttstock, pistol grip, bipod, heat shield and rear sight assembly. The M240B Machine Gun may also be tripod-mounted and used in conjuction with a traversing and elevating mechanism and a flex mount pintle. mounted weapon for tanks and light armored vehicles. The M240B is an air cooled, link-belt fed, gas operated weapon. The weapon features fixed head space, which

infantry, mechanized infantry, and combat engineer units. The US Army has identified a need to upgrade its current inventory of 7.62mm Medium Machine Guns in order JUSTIFICATION: The M240B Medium Machine Gun is an infantry version of the M240 Armored Machine Gun intended to replace the M60 Series Machine Gun in light to provide the dismounted infantryman a more reliable, accurate, and lethal medium machine gun to suppress and destroy enemy personnel, lightly armored vehicles, and fortified positions.

Item No. 25 Page 2 of 6

| | Exhibit P | Exhibit P-5a Budget Progurement History and Planning | listory an | nd Planning | | | | | Date: | 000 | |
|--------------------|--|--|---------------------|--|--------------------------|-----------------------------|-----------------------|---|-----------|-----------------|-------------------|
| A section of | | caj pagagara | Weapon System Type: | n Tune. | | D. 1 Line flow Nomenclature | Company of the second | | | Druary 198 | |
| PROCUREMENT | Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRRD CMBT VEHS / 2 / Weapons and Other Combat Vahides | | ace for colored | . Jpo. | | ARIA | TOR MACHINE | BILL NOTIBLICABULE. ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000) | 240 SERIE | S (G13000) | |
| WBS Cost Elements: | | Contractor and Location | Contract Method | Location of PCO | Award Date Date of First | Date of First | QTY | Unit Cost | Specs | Date F Revsn | RFP Issue Date |
| Fiscal Years | | | and Type | | | Delivery | Each | \$000 | Now? | Avail | |
| Hardware (Inc | Hardware (Incls Flex Mount & Blank Firing Device) | | | | | | | | | | |
| FY 97 | | FN Manufacturing, Inc., Columbia, SC | SS/FFP M-3(1) | ACALA | Sep-97 | Mar-98 | 2034 | 80 | Yes | ⁸ | |
| FY 98 | | FN Manufacturing, Inc., Columbia, SC | SS/FFP | ACALA | Apr-98 | Oct-99 | 673 | 6 | Yes | 2 | |
| | | FN Manufacturing, Inc., Columbia, SC | SS/FFP M-3(3) | ACALA | Apr-98 | Feb-00 | 827 | 8 | Yes | ž | |
| FY 99 | | FN Manufacturing, Inc., Columbia, SC | SS/FFP M-3(3) | ACALA | Jan-99 | Jul-00 | 673 | 80 | Yes | § | ± = 1 <u></u> |
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| | | | | | | | | | | | |
| REMARKS: | The M240 contract was established as a 3-year part of the 3rd years of the multiyear contract. | | ntract (FY | multiyear contract (FY97,99,00). FY98 Congressional funding will be used to exercise the 2nd and | ressional | funding | will be us | sed to exerc | sise the | 2nd a | pu |

| | į | 100 110 | | | | | 5.1 lte | m Noi | nench | P-1 Item Nomenclature: | - | 1 | | 07074 | 1 | Š | 600 | | | | Date: | | | ú | 000 | 9 | | | |
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| TT 88/89 BODGE! PRODUCION SCHEDOLE | ₹ | | | ۶ | 9000 | ī vā | ١ | | ON L | T WAS | Fieral Vear 96 | 100 | 96 | NIC #C | OE NIE | | 3 | | l | 1 | 2813 | Fiscal Vear 97 | 9.78 | L | o daily | 1990 | | Ŀ | _ |
| | Σ | | | | _ | i ii | | | - | | | | Calendar Year 96 | dar | ear | 9 | 4 | | Г | | | Cale | nda | Calendar Year 97 | ar 97 | | | >, ≀ | |
| COST ELEMENTS | LL CC | £ | m c: > | Each 1 | 00.1 | AS OF 1 OCT | 00+ | z 0 > | 2 M C | ттю | ≥ < ¤ | < 0_ C | ∑ < ≻ | 7 D Z | 4 D D | αше | 001 | z 0 > | о ш О | -> < z | r m w | Σ < α | < 0 E | , J Z | 7 D Z | ∢⊃೮ | லநர | ⊢ Ш Œ | |
| k Blank) | - | FY 97 | | 2034 | H | 2034 | | \vdash | _ | L | | | Н | | - | Н | Ц | | | | Н | Н | Н | Н | Н | Ц | ٧ | 2034 | |
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| | - | FY 98 | A | 673 | 0 | 673 | | | | | | | _ | - | | | | | | | \dashv | Н | | Н | | | | 673 | |
| | - | FY 98 | H | 827 | 0 | 827 | Н | | | | | | | _ | _ | - | | | | | | | | - | | | | 827 | _ |
| | - | FY 99 | | 673 | 0 | 673 | | | | | | | | | | | | | | | | | | | | | | 673 | |
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| | | | | | MAX | REACHED | Number | \neg | INITIAL | | L | Pri | Prior 1 Oct. | | After 1 Oct. | -1 Oct | 4 | After 1 Oct. | oct. | ¥ | After 1 Oct | T | FY97 | long ac | fmin le | adtime | FY97 long admin leadtime due to extended negotiations with FNMI. | | - |
| A FN Manufacturing Inc. Columbia CC | t | O O | 000 | t | 350 | Ş | • | ā | RECRUER | g | | | | + | | | + | - 6 | | | 25 | Ť | FY97 | deliver | y sche | dule ex | FY97 delivery schedule extended | _ | _ |
| The maintacturing, inc., Columbia, 50 | + | 3 | | | 3 | 2 | ١ | Z | INITIAL | | L | | | H | | | L | | | | | П | lo pre | ent a | break i | to prevent a break in production. | rction. | | |
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| FY 98 / 99 BUDGET PRODUCTION SCHEDULE | CT | ION SCI | HEDOI | Щ | | | P-1 | P-1 Item Nomenclature: ARMOR MAC | Menci | menciature: ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000) | HNE | GUN, | 7.62MI | M M24 | 0 SEF | IES (C | 31300 | 6 | | | <u></u> | Date: | | | Feb | February 1998 | 866 | | |
|---------------------------------------|-----------|---------|------------------|---------|-------------|----------------|--------|---|----------|---|--------------|----------------|--------------|------------------|-------|--------------|-------|-----------|--------------|-----------|----------|--------------|----------------|------------------|---|---------------------|---------|-------|--------------|
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| | Σ | | ဟ | ΔŢ | PRIOR | DUE | | | H | | | | Cale | Calendar Year 98 | Yea | r 98 | | | | _ | | | Saler | dar | Calendar Year 99 | 66 | | | ∢ |
| COST ELEMENTS | uc | È | ш сс > | Each | 10 1 OCT | AS OF 1 OCT | 0 U F | z o > | ¬ ≼ Z | ппю | Σ < α | A G H | ≥ < ≻ | っつZ | 704 | ∀⊃ ७ | ωшα | 001 | z 0 > | OHO | 7 K Z | πmm | < G E | ≥ < ≻ | 7 D Z | 754 | ۵ ر ۸ | ωшc | ⊢ ω α |
| Hardware (Incls Flex Mount & Blank) | - | FY 97 | ٧ | 2034 | | 2034 | | | Н | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 100 | 100 | 100 | 175 | 175 | 84 | |
| | - | FY 97 | FMS | 278 | | 278 | | | \dashv | \dashv | Ц | | | | | | | \exists | | | | | Н | | | | | 91 | 187 |
| | - | FY 98 | ۷ | 673 | | 673 | | | | Н | | 4 | | | | | | | H | | - | Н | | | | | | | 673 |
| | 1 | FY 98 | 4 | 827 | | 827 | | | | | Ш | « | | | | | | | | | | Н | _ | | | | | | 827 |
| | 1 | FY 99 | A | 673 | | 673 | | | | | | | | | | | | | _ | _ | ٧ | - | | _ | | | | | 673 |
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| NAME / COLON | | Z | 7 | 5.8-5 | MAX. | REACHED D+ | Number | _ | INITIA | | L | - | Prior 1 Oct. | Čť. | ¥ | After 1 Oct. | zi | Affe | After 1 Oct. | | After | After 1 Oct. | L 6 | Y97 lo xtende | FY97 long admin leadtime due to extended negotiations with FNMI. | nin lea otiation | dtime d | FNMI. | |
| FN Manufacturing, Inc | T | 8 | 200 | 200 | 350 | 9 | | | REORDER | E | \downarrow | L | - | | | 9 | T | | 00 | t | 1" | 25 | L | Y97 d | FY97 delivery schedule extended | sched | nle ext | pepue | |
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| FY 98 / 99 BUDGET PRODUCTION SCHEDULE | CCT | ION SC | HED | HE HE | | | <u>. </u> | <u> </u> | - ¥ | P-1 Item Nomenclature: ARMOR MAC | menciature: ARMOR MACHINE GUN, 7.62MM M240 SERIES (G13000) | INEG | UN, 7 | 62MM | M240 | SERIE | S (G1 | 3000 | | | | Cate | | | _ | February 1998 | ary 19 | 88 | | |
|--|--------------|--------|---------|------------------|---------|----------|--|----------|----------|-------------------------------------|---|----------------|-------|------------------|-----------|-----------------|-----------------------|----------|--------------|---------|-------|-------------|----------------|-----------|--------------|-----------------------------------|--------|-------|-------|--------------|
| | t | | | PROC | ACCE | L | BAL | | | | FIS | Fiscal Year 00 | /ear | 8 | | | | L | | | 1 | FIS | Fiscal Year 01 | ear | 6 | l | l | l | - | ١ |
| | Σ | | တ | ΔT | PRIOR | | DUE | | | | | | ٥ | Calendar Year 00 | dar | ear | 00 | | | | | | Ca | end | ar | Calendar Year 01 | F | | | < |
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| Hardware (Incls Flex Mount & Blank) | 1 | FY 97 | Y | 2034 | 2 | 4 | | | H | | | | П | H | Н | Н | | | | | | | | | | | | | | |
| | - | FY 97 | FMS | 278 | 91 | | 187 | 175 12 | 2 | | | | П | | | - | Н | | | | | | | | | | | | | |
| | - | FY 98 | ٧ | 673 | | 9 | 673 | 63 175 | 175 | 5 175 | 85 | | | | | \dashv | \dashv | 4 | | | | | | | | | | | | |
| | 1 | FY 98 | Α | 827 | | 8 | 827 | | Н | | 80 | 175 | 175 | 175 | 175 | 37 | | _ | Ц | | | | | | | | | | | |
| | - | FY 99 | Α | 673 | | 9 | 673 | Н | Н | | | | | | - | 138 | 175 175 | 5 175 | 2 | | | | | | | | | | | |
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| | 1 | MIN. | | 1-8-5 | MA | + | <u>.</u> | - | Z | MILIAL | T, | | | - | \dagger | | ء اء | + | ` | | | 2 2 | T | FY97 | deliv | FY97 delivery schedule extended | hedule | exter | pep | |
| 1 FN Manufacturing, Inc., Columbia, SC | t | 96 | | 200 | 320 | + | ٥ | ı | Į Ž | HECHUEN | <u>.</u> | I | | 1 | t | | ٥ | + | 2 | 1 | | S | T | to pre | event | to prevent a break in production. | kin p | oduct | ę. | |
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Item No. 25 Page 6 of 6 211

| | | Exhibit P-4 | Exhibit P-40, Budget It | lem Justification Sheet | ation Sheet | | | Date: | | February 1998 | | |
|--|---|-----------------|-------------------------|-------------------------|---------------------------------|------------------------|---------|---------|------------------------------------|---------------|-------------|------------|
| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 Item Nomenclature: | re: | | | | | |
| PROCUREMENT OF | PROCUREMENT OF WPNS & TRKD CMBT VEHS/2/Weapons and Other Combat | TVEHS/2/Weapons | and Other Combat | Vehicles | | | | MACHINE | MACHINE GUN, 5.56MM (SAW) (G12900) | (G12900) | | |
| Program Elements for Code B Items: | 13: | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | | | | 4 | | | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | 48002 | 8705 | 9430 | 3802 | 406 | 1525 | | | | | | 71870 |
| Gross Cost | 117.2 | 21.1 | 27.5 | 12.1 | 5.5 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 187.9 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 117.2 | 21.1 | 27.5 | 12.1 | 5.5 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 187.9 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 117.2 | 21.1 | 27.5 | 12.1 | 5.5 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 187.9 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | |

DESCRIPTION: The Squad Automatic Weapon (SAW) is a lightweight (22 pounds with 200 rounds of ammunition), 5.56mm, one-man operated weapon capable of delivering a sustained volume of automatic, accurate, and lethal fire at ranges of up to 800 meters. The Army configuration was changed Oct 89 to include a spare barrel, additional heat shield and barrel bag.

their survivability. This lightweight, highly mobile machine gun will be used by infantry, light infantry, airborne infantry, mechanized infantry and elements of the air cavalry units, as well as non-infantry units. This procurement profile will equip selected elements of the above mentioned units on JUSTIFICATION: The sustained fire capability and increased range are urgently needed throughout infantry rifle squads in order to enhance a priority basis.

| Exhibit P-5, Weapon WTCV Cost Analysis | | Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat | get Activity/? OF WPNS or | Serial No: & TRKD CMBT ther Combat | | P-1 Line Item MACHINE | P-1 Line Item Nomenclature: MACHINE GUN, 5.56MM (SAW) (G12900) | ;AW) (G12900) | | Weapon System Type: | | Date: · Febru | February 1998 |
|--|---|---|---|--|-----------|--------------------------|---|---------------|-------|---------------------|-----------|------------------|---------------|
| WICV | ₽ | | FY 96 | | | FY 97 | | | FY 98 | | | FY 99 | |
| Cost Elements | 8 | TotalCost | QIA | UnitCost | TotalCost | QİÇ | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Qty | UnitCost |
| | | \$000 | Each | \$000 | \$000 | Each | 000\$ | 000\$ | Each | \$000 | 000\$ | Each | \$000 |
| 1. Hardware | ⋖ | 24817 | 9430 | ю | 10006 | 3802 | ဇ | 1068 | 406 | e | 4185 | 1525 | б |
| 2. GFM | | 929 | | | 186 | | | 80 | | | | | |
| 3. Engineering Support - In House Support | | 134 | | | 145 | | | 341 | | | 78 | | |
| 4. Quality Assurance (ARDEC) | | | | | 65 | | | 88 | | | 21 | • | |
| 5. Testing (TECOM) | | 115 | | | 101 | | | 100 | | | 09 | | · |
| 6. Engineering Change Proposal (ECP's) | | | | | 162 | | | 2200 | | | 10 | | • |
| 7. ILS | | 65 | | | 65 | | | 09 | | | 40 | | |
| 8. Fielding | | 1661 | | | 1086 | | | 1539 | | | 100 | | |
| 9. TDP Maintenance | | 28 | | | 50 | | | 20 | | | | | |
| 10. Storage | | | | | 35 | | | | | | | | |
| 11. Refurbishment | | 6 | | | | | | | | | | | |
| 12. Engr Study | | | | | 149 | | | | | | | | |
| | | | - 1 - 1 - 2 - 2 - 1 - 1 - 1 - 1 - 1 - 1 | | | | | | | | | | |
| TOTAL | | 27485 | | | 12050 | | | 5455 | | | 4494 | | |
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| Exhibit | Exhibit P-5a. Budget Procurement History and Planning | listory ar | nd Planning | | | | | Date: | Fabriary 1008 | |
|--|---|------------------------|-----------------|--------------------------|---------------|-----------------------------|------------------------------------|-----------|--|-------------------|
| Appropriation / Budget Activity/Serial No: | | Weapon System Type: | n Type: | ſ | P-1 Line Item | P-1 Line Item Nomenclature: | | | Company of the Compan | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles | | | | | | MACHINE | MACHINE GUN, 5.56MM (SAW) (G12900) | AW) (G129 | (00 | |
| WBS Cost Elements: | Contractor and Location | Contract Method | Location of PCO | Award Date Date of First | Date of First | ΩTY | Unit Cost | Specs | Date Revsn | RFP Issue Date |
| Fiscal Years | | and Type | | | Delivery | Each | \$000 | Now | Avail | |
| 1. Hardware FY 96 | FN Mfg. Co., Inc., Columbia SC | SS/FFP M-3(1) | ACALA | Aug-96 | Jan-97 | 9430 | 8 | Yes | å | |
| FY 97 | FN Mfg. Co., Inc., Columbia SC | SS/FFP ACALA M-3(2) | ACALA | Dec-96 | Sep-98 | 3802 | n | Yes | Š | |
| FY 98 | FN Mfg. Co., Inc., Columbia SC | SS/FFP ACALA M-3(3) | ACALA | Dec-98 | 96-unc | 406 | n | Yes | <u>8</u> | |
| FY 99 | FN Mfg. Co., Inc., Columbia SC | SS/FFP ACALA | ACALA | Jan-99 | 96-Inf | 1525 | в | Yes | 2 | |
| | | | | | | | | | | |
| REMARKS: | | | | | | | | | | |

| EV 98 / 99 RUDGET PRODUCTION SCHEDULE | ICTION | SCH | EDUL | щ | | | <u>:</u> | P-1 Item Nomenclature: MAC | omer | iclatur. MA(| OFFICE | ture: MACHINE GUN, 5.56MM (SAW) (G12900) | 5.56M | M (SA | W) (G | 12900) | | | | | 2 | Date: | | | Febr | February 1998 | 86 | | |
|--|---------|-----|------------------|--------|-------------|----------------|----------|-------------------------------|-----------|-----------------|----------|---|--------------|------------------|-----------|--------------|-------|-----------|--------------|----------|-------------|----------|------------------|----------|--------|---------------|---|-----------|------|
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| | Σ | | | | PRIOR | DUE | | | Г | | | | Cal | Calendar Year 96 | r Ye | ar 96 | | | | H | | ۲ | Calendar Year 97 | ıdar | Year | 26 | | | ⋖ |
| COST ELEMENTS | F FY | | шк> | Each | T0 1 OCT | AS OF 1 OCT | 00- | z o > | υшο | ¬ ∢ z | тшш | A G E | | ¬⊃Z | - D - | < ⊃ ฃ | o m d | 001 | z 0 > | 0 11 0 | ¬ 4 Z | | < 0. C | Σ<≻ | 7 D Z | ר כ י | < ⊃ ৩ | ωшα | ⊢ш∉ |
| Hardware | 1 95⪻ | Pr | - | 47.6 | 35.2 | 12.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 8 0.8 | 3 0.8 | 0.8 | 0.8 | 8.0 | 8.0 | 0.8 | 0.8 | 0.8 | 0.4 | Н | Ц | Н | Ц | | | | |
| | 2 95⪻ | Pr | Α | 9.1 | 9.1 | | | | | | H | | | | | | | | | - | - | 4 | Ц | | | | | | |
| | 1 95⪻ | _ | MC | 2.5 | 2.5 | | | | | | - | Н | | | | | | | - | _ | \dashv | _ | | | | | | _ | |
| | 1 95⪻ | | AF | 2.5 | 2.5 | | Ц | | | \vdash | Н | Н | | | | | | | Н | \dashv | - | \dashv | Ц | | | | | | |
| | 1 95⪻ | | SDAF | 0.5 | 0.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 95⪻ | | FMS | 0.2 | 0.2 | | | | | | H | | _ | | | | | Н | H | - | - | | | | | | | | |
| | 1 FY 96 | 96 | A | 9.4 | | 9.4 | | | | | H | | | | | ٧ | | | Н | 0 | 0.5 0.5 | 5 0.5 | 5 0.5 | 5 0.5 | 9.0 | 0.5 | 0.5 | 9.0 | 5.4 |
| | 1 FY 97 | 37 | ٧ | 3.8 | | 3.8 | | | | H | Н | H | _ | | | | | Н | H | ٧ | H | H | | Ц | | | | | 3.8 |
| | 1 FY98 | 98 | ٧ | 0.4 | | 0.4 | | | | | - | | | | | | | | | | | Н | Ц | Ц | | | | | 0.4 |
| | 1 FY99 | 66 | ٧ | 1.5 | | 1.5 | | | | \vdash | \dashv | Н | _ | | | | | Н | \dashv | | | | Ц | Щ | | | | | 1.5 |
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| Total | | + | | 77.5 | 20.0 | 27.5 | 0.8 | 8.0 | 8.0 | 8.0 | 0.8 | 9.8 | 8.0 | 0.8 | 8.0 | 0.8 | 8.0 | 8.0 | 8.0 | 9.0 | 0.9 | 9.0 | 9.0 | 9.0 | 8 | 0.5 | 0.5 | 9.0 | 11.1 |
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Item No. 26 Page 4 of 6 215

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| Total | | \dagger | _ | 77.5 6 | 6.5 | | 9.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 4.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5.0.5 | 9.5 | 9.0 | 0.3 |
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| FY 98 / 99 BUDGET PRODUCTION SCHEDULE | CTION | SCH | EDUL | Ш | | | <u>. </u> | P-1 item Nomenciature: | NOTE | Inciate. | MACHINE GUN, 5.56MM (SAW) (G12900) | Æ GU | N, 5.5 | 9MM | SAW) | (G129 | (00 | | | | | Care | ń | | | Febr | February 1998 | 966 | | |
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| COST ELEMENTS | т я У | | ш с > | | 10CT | AS OF 1 OCT | 00- | z 0 > | ОшО | ¬ ∢ z | тшю | ≥ < Œ | < 0 E | Σ<≻ | 7 D Z | רכי | A ⊃ @ | 00- | z 0 > | DEO | > ∢ Z | тшю | ∑ < Œ | < 0. K | Σ ∢≻ | 7 D Z | 2 D 7 | ∀⊃ ت | ωшσ | ⊢wœ |
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| | 1 95⪻ | | | 0.5 | 0.5 | | | | | | | | | | | Н | _ | | Ц | | | | | | | | | | | |
| | 1 FY 96 | | | 9.4 | 9.4 | | | | | | | | | | | | | | | | | | | | | | | | | |
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| W | PF | RODUCT | PRODUCTION RATES | S | | | _ | MFR | L | | | ۲ | П | ADMIN LEAD TIME | N LEA | D TIM | ш | Н | MFR | æ | | TOTAL | ڀ | _ | REMARKS | RKS | ı | | | |
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Item No. 26 Page 6 of 6 217

| TeMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Code B Items: Prior Years FY 1995 9866 2100 147.6 34.0 34.0 147.6 34.0 | | | | | | | | February 1998 | | |
|--|---------------------|---------|---------------------------------|------------------------|---------|---------------|---|-----------------|-------------|------------|
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Of Program Elements for Code B Items: Program Elements for Code B Items: Prior Vears FY 1995 FY Proc Qty 9666 2100 | | | | P-1 Item Nomenclature: | :e | | | | | |
| Prior Years FY 1995 9666 2100 147.6 34.0 | and Other Combat Ve | hicles | | | | GRENADE LAUNC | GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400) | MK19-3 (G13400) | | |
| Prior Years FY 1995 9666 2100 147.6 34.0 50 147.6 34.0 | 0 | Code: | Other Related Program Elements: | m Elements: | | | | | | |
| Prior Years FY 1995 9666 2100 147.6 34.0 0c 147.6 34.0 | | ٧ | | | | | | | | |
| 9666 2100 147.6 34.0 0c 147.6 34.0 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| 00° 00° 147.6 34.0 | 1637 | 2150 | 400 | 697 | 1026 | 649 | 727 | 1255 | | 20307 |
| oc oc 147.6 34.0 | 32.8 | 33.0 | 7.8 | 12.2 | 18.5 | 13.8 | 15.5 | 25.4 | 0.0 | 340.6 |
| 147.6 34.0 | | | | | | | | | | |
| 147.6 34.0 | | | | | | | | | | |
| | 32.8 | 33.0 | 7.8 | 12.2 | 18.5 | 13.8 | 15.5 | 25.4 | 0.0 | 340.6 |
| | | | | | | | | | | |
| Total Proc Cost 147.6 34.0 | 32.8 | 33.0 | 7.8 | 12.2 | 18.5 | 13.8 | 15.5 | 25.4 | 0.0 | 340.6 |
| Flyaway U/C | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | |

rounds per minute. It will engage point targets up to 1,500 meters and provide suppressive fire up to 2,200 meters. Component items for this system include the 40mm asssembly group 1 and the MK64 mount. DESCRIPTION: The MK19, Mod 3 is a self-powered, air-cooled, blowback, 40mm automatic grenade launcher capable of a cyclic rate of 325-375

JUSTIFICATION: The weapon will be mounted on the High Mobility Multi-Purpose Wheeled Vehicle (HMMWV), the Armored Personnel Carrier family of vehicles and the M88A1 Recovery Vehicle. During static defensive operations, it will be ground employed utilizing the M3 Tripod Mount. It will replace select M2 cal .50 and M60 7.62mm machine guns in mechanized, light infantry, engineer, military police, and other combat support and combat service support units. Procurement will help reduce critical supply position for high-priority equipment readiness code (ERC) A shortages in Europe, Korea, and CONUS requirements. The MK175 Pedestal Mount is being incorporated on the MK64 Mount to improve the accuracy and dispersion of the MK19-3 when used on the HMMWV application.

| Exhibit P-5, Weapon | | Appropriation/ Budget Activity/Serial No: | iget Activity/S | erial No: | | P-1 Line Item | P-1 Line Item Nomenclature: | | S | Weapon System Type: | | Date: | |
|--|---|---|-----------------|----------------------------|-------------------------------|---------------------------|---|----------------|-------|---------------------|-----------|-------|---------------|
| WTCV Cost Analysis | | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat | TOF WPNS | & TRKD CMBT ther Combat | | GRENADE L | GRENADE LAUNCHER, AUTO, 40MM, MK19- 3 (G13400) | O, 40MM, MK19- | | | | Febri | February 1998 |
| WTCV | Q | | FY 96 | | | FY 97 | | | FY 98 | | | FY 99 | |
| Cost Elements | S | TotalCost | Qfy | UnitCost | TotalCost | Oty | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Qfy | UnitCost |
| | | \$000 | Each | \$000 | 000\$ | Each | \$000 | 000\$ | Each | \$000 | 000\$ | Each | \$000 |
| 1. Hardware | ∢ | 20237 | 1500 | 13 | 4433 20876 4065 2107 | 320 1423 268 139 | 4 £ £ £ | 6091 | 400 | 15 | 10609 | 269 | 15 |
| 2. Round Removal Tool (GFM) | | 187 | | | 209 | | | 43 | | | 82 | | |
| 3. Engineering Support - In House | | 793 | | | 099 | | | 1032 | | | 686 | | |
| 4. Quality Assurance (ARDEC) | | 45 | | | 30 | | | 64 | | | 65 | | |
| 5. Integrated Logistic Support | | 314 | | | 15 | | | 127 | | | 125 | | |
| 6. Engineering Change Proposal | | 103 | | | 332 | | | 38 | | | 125 | | |
| 7. Testing (TECOM) | | | | | | | | 266 | | | | | |
| 8. Fielding | | 406 | | | 245 | | | 174 | | | 183 | | |
| 9. M175 Material Change (Application Costs) | | | | | | | | | | | 10 | | |
| 10. MK19 Claim | | 8688 | | | | | | • | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | ** | | | | | | |
| | | | | | | | | | | | | | |
| TOTAL | | 32812 | | | 32972 | | | 7835 | | | 12191 | | |
| | 7 | | 1 | | | 1 | | | 1 | | | | |

| Exhibit F | Exhibit P-5a, Budget Procurement History and Planning | listory an | id Planning | | | | | Date: | February 1998 | 866 |
|--|---|------------------------|-----------------|--------------------------|-----------------------------|---------------|---|-----------------|---------------|-------------------|
| Appropriation / Budget Activity/Serial No: | | Weapon System Type: | n Type: | | P-1 Line Item Nomenclature: | lomenclature: | | | | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles | | | | | GRE | ENADE LAUNC | GRENADE LAUNCHER, AUTO, 40MM, MK19-3 (G13400) | MM, MK18 | -3 (G1340 | (0 |
| WBS Cost Elements: | Contractor and Location | Contract Method | Location of PCO | Award Date Date of First | Date of First | αTY | Unit Cost | Specs Avail | | RFP Issue Date |
| Fiscal Years | | and Type | | | Delivery | Each | \$000 | Now? | Avail | |
| Hardware | | | | | | | | | | |
| FY 96 | SACO Defense, Saco, Maine | SS/FFP | ACALA | 96-Inf | May-97 | 1500 | 13 | Yes | 2 | |
| | SACO Defense, Saco, Maine | | ACALA | Apr-97 | 36-Inc | 137 | 15 | Yes | ક્ર | |
| FY 97 | SACO Defense, Saco, Maine | | ACALA | Nov-96 | May-98 | 320 | 14 | Yes | 2 | |
| | SACO Defense, Saco, Maine | Option | ACALA | Apr-97 | Sep-98 | 1423 | 15 | Yes | § | |
| | SACO Defense, Saco, Maine | SS/FFP | ACALA | Sep-97 | Oct-99 | 268 | 15 | Yes | 8 | |
| | SACO Defense, Saco, Maine | Option | ACALA | 96-unf | Jan-00 | 139 | 15 | Yes | 8 | |
| FY 98 | SACO Defense, Saco, Maine | Option ACALA | ACALA | 96-unf | Feb-00 | 400 | 15 | √es | 8 | |
| FY 99 | SACO Defense, Saco, Maine | SS/FFP ACALA M-3(2) | ACALA | Dec-98 | Jun-00 | 269 | 15 | X _{BS} | 8 | |
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| | 1 FY 96 | | AB | 125 | 0 | 125 | | | | | | | Ц | 4 | | \dashv | _ | | | | \dashv | \dashv | | | | | 125 |
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| | 1 FY 97 | 25 | A | 320 | 0 | 320 | | | | | | _ | \Box | | | \dashv | ۷ | | | | | | | | | | 320 |
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| | | Exhibit P-4 | Exhibit P-40, Budget It | em Justifica | em Justification Sheet | | | Date: | | February 1998 | | |
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| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 Item Nomenclature: | re: | | | | | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat \(\) | WPNS & TRKD CMBT | TVEHS/2/Weapons | and Other Combat \ | Vehicles | | | | _ | M16 RIFLE (G14900) | | | |
| Program Elements for Code B Items: | S: | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
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| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | 490368 | 20473 | 31826 | 15583 | 11297 | 16067 | 22848 | 7472 | | | | 615934 |
| Gross Cost | 224.5 | 9.8 | 13.1 | 6.5 | 5.0 | 6.8 | 9.8 | 4.9 | 0.0 | 0.0 | 0.0 | 280.4 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 224.5 | 9.8 | 13.1 | 6.5 | 5.0 | 6.8 | 8.6 | 4.9 | 0.0 | 0.0 | 0.0 | 280.4 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 224.5 | 9.8 | 13.1 | 6.5 | 5.0 | 6.8 | 9.8 | 4.9 | 0.0 | 0.0 | 0.0 | 280.4 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| PLOODELINE THE MACAO DIST. P. P. | 12.0 0 0 0 12.0 | | | And also as also | | 1 - 1 1 1 v. | ľ | | | | | |

and is designed for use as the primary infantry weapon. The M16A2 is an improved version the M16A1 Rifle. Improvements include: strengthened plastic handguard, rifle DESCRIPTION: The M16A2 Rifle, 5.56mm, is a gas operated, air cooled, magazine fed, selective rate shoulder fired weapon. It is fed by a 30 round aluminum magazine distinct sight picture, a brass deflector to prevent hot brass cartridge casings from hitting left-handed shooters, and a stronger barrel reinforced with additional metal and a when fired, a burst control device limiting the automatic fire to a miximum of three rounds per trigger pull, and adjustable rear sight and square front sight post for a more stock and pistol grip to increase durability of the weapon, interchangeable handguard halves, muzzle brake compensator which reduces the raise or jump of the muzzle change in the twist ratio of the bore to accommodate NATO standard 5.56mm ammunition. The maximum effective range of the M16A2 has increased from 460 to 550 meters.

JUSTIFICATION: The M16A2 Rifle Program for FY99 provides additional rifles for fielding against the Force Modernization requirement for pure fleeting the field with the M16A2 Rifle. Without additional M16A2 Rifles, a logistic problem associated with different ammunition requirements for the M16A1 vs M16A2 is perpetuated. Funding also supports the M16 Rifle Industrial Base.

| Exhibit P-5, Weapon | | Appropriation/ Budget Activity/Sertal No: PROCLIFEMENT OF WPNS & TRKD CMBT | get Activity/ | Serial No: | | P-1 Line Item | P-1 Line Item Nomenclature: M16 RIFLE (G14900) | (00) | _ | Weapon System Type: | | Date: Febru | February 1998 |
|--|---|--|---------------|-------------|-------------|---------------|---|-----------|-------|---------------------|-----------|----------------|---------------|
| WTCV Cost Analysis | | VEHS / 2 / Weapons and Other Combat | spons and C | ther Combat | | | | , | | | | | |
| WTCV | Ω | | FY 96 | | | FY 97 | | | FY 98 | | | FY 99 | |
| ents | 8 | TotalCost | Qţ | UnitCost | TotalCost | Oty | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Qty | UnitCost |
| | П | 000\$ | Each | s | \$000 | Each | S | 000\$ | Each | s | 000\$ | Each | S |
| 1. Rifle (Includes Slings and Magazines) | < | 12667 | 31813 | 398 | 4109 616 | 10320 | 398 | 4499 | 11297 | 398 | 6397 | 16067 | 398 |
| Refurbished Rifles | | ဇ | 13 | 231 | 000 | 6 | | | | | | | |
| 2. Engineering Support - In House Support | | | | | | | | 266 | | | 256 | | |
| 3. Engineering Change Proposals | | 60 | | | 09 | | | 63 | | | 85 | | |
| 4. Quality Assurance (ARDEC) | | 47 | | | 45 | | | 63 | | | 54 | | |
| 5. Integrated Logistics Support | | 65 | | | 65 | | | 74 | | | | | |
| 6. Testing (TECOM) | | 131 | | | 130 | - | - | | | | | | |
| 7. Fielding | | 133 | | | 18 | | | 19 | | | 30 | | |
| TOTAL | | 13054 | | | 6523 | | | 4984 | | | 6829 | | |

Item No. 28 Page 2 of 6 225

| | | | | | | | | Date: | | |
|--|--|----------------------------|-----------------|--------------------------|-----------------------------|--------------|--------------------|-------|---------------|-------------------|
| Exhibit | Exhibit P-5a, Budget Procurement History and Planning | listory ar | nd Planning | | | | | 4 | February 1998 | 38 |
| Appropriation / Budget Activity/Serial No: PROCUHEMENT OF WINNS & TRKD CMBT VEHS / 2 / Weapons and Other Combet Vehicles | | Weapon System Type: | m Type: | | P-1 Line flem Nomenclature: | | M16 RIFLE (G14900) | (00 | | |
| WBS Cost Elements: | Contractor and Location | Contract Method | Location of PCO | Award Date Date of First | Date of First | νтр | Unit Cost | Specs | Date Revsn | RFP Issue Date |
| Fiscal Years | | and Type | | | Delivery | Each | €9 | Now? | Avail | |
| Rifle (includes Slings and Magazines) PY 96 | FN Mfg. Co., Inc. Columbia, SC | | ACALA | Aug-96 | Jan-97 | 31813 | 398 | | ŝ | |
| | FN Mfg. Co., Inc. Columbia, SC | M-5(1) SS/FFP M-5(1) | ACALA | Aug-96 | Jan-97 | 13 | 231 | Yes | 8 2 | |
| FY 97 | FN Mfg. Co., Inc. Columbia, SC | | ACALA | Dec-96 | Jan-99 | 10320 | 398 | Yes | ž | |
| | FN Mfg. Co., Inc. Columbia, SC FN Mfg. Co., Inc. Columbia, SC | Option Option | ACALA ACALA | Dec-96 Aug-97 | Aug-99 Sep-99 | 1548 3715 | 398 | Yes | 2 2 | |
| FY 98 | FN Mfg. Co., Inc. Columbia, SC | SS/FFP M-5(3) | ACALA | Jan-98 | Dec-99 | 11297 | 398 | Yes | 8 | |
| FY 99 | FN Mfg. Co., Inc. Columbia, SC | SS/FFP M-5(4) | ACALA | Jan-99 | 30-lnf | 16067 | 398 | Yes | °S | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | 10.5574 | | | | | | | | |
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| REMARKS: | | | | | | | | | | |

| | OT-C | 0 | | | | <u>-</u> | lem No | menc | P-1 Item Nomenclature: | | 9 | (0000100) TITLE 0011 | 4 | | | | | | | Date: | | | | 1 | 000 | | | |
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| ET 98/ 98 BUDGEL FRODON SCHEDOLS | | | | ACCEP | IVE | 1 | l | ı | ľ | Fiscal Vear 96 | Vea | 96 | 100 | | ı | H | | l | L | ۳ | Fiscal Year 97 | ear | L | | | | F | T |
| 2 | _ | | - | | | | | H | | | | Calendar Year 96 | ndar | Yea | 96 | 1 | | | L | | ပိ | end | ar V | Calendar Year 97 | 1 | ١ | _ | _ |
| COST ELEMENTS | я У | | E Each | - | `- | 00- | z o > | ОШО | - A N | тп 8 Σ < α | < 0 G | ≥ ∢≻ | ¬ ⊃ Z | רכי | ¥⊃७ | о ш с | Z O > | ДШО | > ∢ Z | ஈயம | Σ < α | A G E | ∑ ∢ ≻ | 7 D Z | ے D م | A D Ω R H σ | | ⊢ Ш & |
| | - | Pr | A 498.8 | _ | 16.4 | 2.0 | 1.5 | 1.5 | 1.5 1.5 | 1.5 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 6:0 | H | Н | Н | Ц | | | | | П | | + | Ó | 0.0 |
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| | + | _ | | 26.1 | | | | + | \dashv | + | _ | \Box | | 1 | + | + | + | 4 | 4 | | | | | 1 | + | \dashv | 4 | |
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| | 2 95 & Pr | Pr | N 8.6 | | | | | | | | _ | | | 1 | 7 | ᅥ | - | 4 | | | | | | 7 | 7 | - | 4 | |
| | 1 95 & Pr | | | 29.0 | | | | | \dashv | - | | | | | | | | | | | | | | | 7 | \dashv | _ | 7 |
| | | | SDAF 20.0 | Н | | | | | \dashv | \dashv | | | | | | | | | | | | | | | | \dashv | | |
| | 1 FY 96 | | A 31.8 | 3 | 31.8 | | | | Н | | Ц | | | | < | | _ | | 0.4 | 0. | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 1.5 | _ | 19.9 |
| | 1 FY 96 | | FMS 3.1 | | 3.1 | | | | \dashv | \dashv | _ | | | 1 | < | - | \dashv | 4 | _ | | | | | | 7 | - | 6 | 3.1 |
| | 1 FY 97 | 26 | A 10.3 | 3 | 10.3 | | | - | - | | | | | | | | | < | _ | | | | | | 1 | \dashv | ٤ | 10.3 |
| | | 26 | A 1.5 | | 1.5 | | | | | Н | | | | | | | | < | | | | | | | | | - | 1.5 |
| | 1 FY | 97 | | | 3.7 | | | | \dashv | Н | | | | | | | \dashv | _ | | | | | | | | ∢ | 6 | 3.7 |
| | 1 FY 97 | | FMS 1.2 | | 1.2 | | | | | | | | | | | | _ | 4 | | | | | | | | √ | _ | 1.2 |
| | 1 FY 98 | 88 | A 11.3 | 3 | 11.3 | | | | Н | | | | | | | | \dashv | - | | | | | | | | | = | 11.3 |
| | 1 FY 99 | 66 | A 16.1 | _ | 16.1 | | | | | _ | 4 | | | 1 | | | \dashv | _ | | | | | | | 7 | \dashv | ٣ | 16.1 |
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| Total | | 7 | 6.089 | 9 585.5 | 95.4 | 2.0 | 5. | 1.5 | 1.5 | 1.5 | 5.1.5 | 1.5 | 1.5 | -55 | 6:0 | + | \dashv | + | 9. | 2 | 1.5 | 1.5 | 5. | 5. | 1.5 | 1.5 | _ | 67.1 |
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| ш | | | | L | <u></u> | _ | Number | | | - | 4 | Prior 1 Oct. | ct. | Afte | After 1 Oct. | | After 1 Oct | Oct. | 7 | After 1 Oct. | Set. | The | break | in proc | duction | betwee | The break in production between Sep 96 | 8 |
| | MIN | - - | 1-8-5 | MAX. | 4 | 7 | <u>-</u> | INITIAL | | + | 4 | 2 | 1 | | ဍ | + | | 9 | 4 | 16 | | 8 9 | isition a | o is du | 9 10 a | and Dec 96 is due to a change in acquisition strategy from single v | and Dec 96 is due to a change in acquisition strategy from single year to | |
| 1 FN Mg Co. Inc., Columbia, SC | 1.0 | | 8.0 | 17.0 | ₽ 9 | 4 | | REORDER | EH | + | 4 | S | 1 | | 2 | † | 2 | 56 | 4 | 88 | | | i-year | procur | multi-year procurement. | 6 | a a a | |
| 2 Colt's Mfg Co. Inc. Harfford, CT | 0. | + | 0.4 | 202 | + | _ | =14 | REORDER | EB | + | + | | T | | | t | ı | | _ | | | F. | ded de | livery | schedu | Funded delivery schedules and MFR | MFR | |
| | | Н | | | Ц | L | | NITIAL | | H | Ц | | П | | П | H | П | П | Ц | Ш | | cont | inuity | extend in prod | leadtimes extended to mainta continuity in production rates. | leadtimes extended to maintain continuity in production rates. | | |
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| EV 98 / 99 BLIDGET PRODUCTION SCHEDIII E | NOITSI | I C | # HOT | | | <u>a.</u> | P-1 Item Nomenclature: | Nom | ənclat | nre: | M | 0.00 | M16 DIELE (C14900) | 6 | | | | | | | Date: | | | Ľ | Cohemon 4000 | 4000 | | | |
|--|-----------|-------------|------------------|---------------|---------------|----------------|------------------------|--------------|---------|-------|------------------|-------|--------------------|----------|----------------|----------------|-----|-------------|---------|-------|-------------|----------------|--------|-------------|---------------------------------|------------------|--|---|-------|
| | - | <u>;</u> - | H.d. | PROC ACCEP. | L | BAL | | ı | | FIS | Fiscal Year 98 | ear 9 | 8 | 3 | | | L | | ١ | 1 | FISC | Fiscal Year 99 | ear 5 | | | | ı | F | Т |
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| | 1 FY 96 | | | | - | | 1.5 1.5 | 5 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.2 | 0.2 | 1.5 | 1.5 | 1.5 | 0.5 | | | Н | Н | Н | Н | \vdash | L | |
| | 1 FY 96 | | FMS 3 | 3.1 | 9 | 3.1 | _ | | | | | | - | ٥ | 0.3 1.5 | 5 1.3 | | | | | | | | | | | H | | |
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| Total | | \dagger | 89 | 680.9 61 | 3.8 | 67.1 | 1.5 2.4 | 1.5 | 5. | 1.5 | . | 5: | 5. | 1.5 | 1.5 | 5. 1.5 | 1.5 | 5: | 1.5 | 1.5 | 1.5 | 1.5 | 5. | 4.5 | 1.5 | 5. | 1.5 | | 30.3 |
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| W | H. | Londo | PRODUCTION RATES | ŀ | | DEACUED | MFR | _ | | | Ħ | | ADMIN LEAD TIME | EA. | D TIM | | Ļ | MFR | _ ; | | TOTAL | | E . | REMARKS | S | | | | |
| NAME / LOCATION | W | | 1.8.5 | W | AX. | ᅩ | - Aumber | _ | INITIAL | | Ť | Prior | Prior 1 Oct. | + | Affer 1 Oct. | 1 Oct. | 1 | Affer 1 Oct | 5 | A | Affer 1 Oct | | and D | reak i | is due | uction to a c | The break in production between and Dec 96 is due to a chance in | The break in production between Sep 96 and Dec 96 is due to a chance in | 98 |
| FN Mfg Co. Inc., Colu | 1.0 | t | 8.0 | = | ╀ | 18 | • | E | REORDER | | T | | , . | + | ٦ | | + | 8 | | | 28 | T | acqui | sition | strateg | y from | single | acquisition strategy from single year to | |
| | 1.0 | | 4.0 | ¥ | 0.0 | 18 | l | Ž | JAL. | Γ | T | ı | | H | | l | L | | | | | Γ | multi | year | multi-year procurement. | ment. | | 1 | |
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| FY 98 / 99 BUDGET PRODUCTION SCHEDULE | UCTION | SCH | EDULE | | | | | | | | W16 RII | M16 RIFLE (G14900) | (4900) | | | | | | | | | Ē | February 1998 | 1998 | | |
| | | H | В | 8 | ACCEP. | BAL | | | Γ | Fiscal Year 00 | Vear | 8 | | | Γ | | | | FIS | Fiscal Year 01 | ear | | | | r | _ |
| | | | | | | DUE | | П | | | | Calendar Year 00 | dar | ear (| 0 | | | Н | | Ca | enda | Calendar Year 01 | ir 01 | | Π | < |
| COST ELEMENTS | я У | | ш ac > | | 1 OCT 1 | ASOF O | z 0 > | υшО | ¬ ∢ z | T B B | < 0 E | ≥ ∢≻ | 7 D Z | د ت م م ت | αшσ | 00- | z 0 > | O E S | ишю | Σ∢α | < 0 G | 7 ⊃ Z ∑ 4 ⊁ | 707 | ∀ ∩ Ø | ωшσ | ⊢ ພ Œ |
| Hardware | 1 95 & Pr | _ | | 498.8 4 | 498.8 | _ | | | - | | | | - | L | | | H | | | | | - | _ | | | |
| | 2 95 & | | A 13 | 12.0 | 12.0 | | | | | | | | H | | | | | | | | | | | | | |
| | 1 95 & Pr | | MC 2 | - | 1.9 | | | | | _ | | | | _ | | | _ | | | | _ | _ | | | | |
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| | 1 FY 96 | | A 3 | 31.8 | 1.8 | | | | | | | | | - | | | - | _ | | | | | | | | |
| | 1 FY 96 | - | FMS 3 | 3.1 | 3.1 | | | | Н | Н | | | | _ | | | | | | | | | | | | |
| | 1 FY 9 | 7 | | 10.3 | 10.3 | | | | Н | Н | | | | Н | | | - | | | | | Н | | | | |
| | 1 FY 97 | 7 | 1 A | 1.5 | 1.5 | | | | | | | | | - | | | - | _ | | | | | | | | |
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| | | Exhibit P-4 | Exhibit P-40, Budget Ite | em Justific | m Justification Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 Item Nomenclature: | re: | | | : | | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles | WPNS & TRKD CMBT | VEHS / 2 / Weapons | and Other Combat \ | Vehicles | | | | 5.56 | 5.56 CARBINE M4 (G14904) | 04) | | |
| Program Elements for Code B Items: | :6 | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | | | | ∢ | | | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | 41582 | 15892 | 9785 | 10603 | 7484 | 6310 | 8687 | 8309 | | | | 108652 |
| Gross Cost | 20.9 | 10.8 | 6.3 | 6.5 | 5.0 | 4.2 | 5.4 | 5.3 | 0.0 | 0.0 | 0.0 | 64.4 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 20.9 | 10.8 | 6.3 | 6.5 | 5.0 | 4.2 | 5.4 | 5.3 | 0.0 | 0.0 | 0.0 | 64.4 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 20.9 | 10.8 | 6.3 | 6.5 | 5.0 | 4.2 | 5.4 | 5.3 | 0.0 | 0.0 | 0.0 | 64.4 |
| Fiyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| | | | | | | | | | | | | |

capability to engage targets at extended ranges with accurate lethal fire. Although more compact and featuring a collapsible stock, it achieves over 85% commonality with DESCRIPTION: The M4 Carbine is a 5.56mm gas-operated, air-cooled, magazine-fed, selective-rate, shoulder-fired weapon. It is fed by a 30-round magazine and will replace all M3A1 WWII era .45 cal Submachine guns, and selective M16 series rifles and M9 pistols. It provides the individual soldier operating in close quarters the the M16A2 rifle. The effective range is 500 meters.

JUSTIFICATION: The M4 Carbine will provide soldiers with a compact, light-weight weapon that can provide better self protection and additional firepower in close quarters. The FY99 program will allow for the uninterrupted fielding of the M4 Carbine to Army units. Procurement is necessary to achieve the Army Acquisition Objective (AAO) for the M4 Carbine.

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TOTAL

February 1998

Veapon System Type:

5.56 CARBINE M4 (G14904)

PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat

Appropriation/ Budget Activity/Serial No:

Exhibit P-5, Weapon WTCV Cost Analysis

UnitCost \$000

Oty Each

TotalCost

UnitCost \$000

TotalCost \$000

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Cost Elements

WTCV

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5524

9785 Each Q

5161

4

Hardware M4 Carbine w/Sling Magazine & Blank Firing

Attachment

362

400

59 75 65 220

Engineering Change Proprosals (ECP's)

Engineering Support - In House Support

4. Quality Assurance (ARDEC)

7. Comparison Test (TECOM)

8. Fielding

6. Engineering Studies

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| Exhibit | Exhibit P-5a, Budget Procurement History and Planning | listory an | d Planning | | | | | Ľ | February 1998 | 86 |
| Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and | | Weapon System Type: | n Type: | | P-1 Line Item Nomenclature: | Nomenclature: | JIG. | 4007 | | |
| Other Combat Vehicles | | | | | | 0.00 | CANDINE M4 (G | 14304) | ŀ | |
| WBS Cost Elements: | Contractor and Location | Contract Method | Location of PCO | Award Date Date of First | Date of First | αгу | Unit Cost | Specs | Date Revsn | RFP Issue Date |
| Fiscal Years | | and Type | | | Delivery | Each | \$000 | Now? | Avail | |
| 1. Hardware FY 96 | Colt's Mfg Co., Inc. Hartford, CT | | ACALA | Oct-97 | Jun-98 | 0009 | 1 | Yes | S _S | |
| | Colt's Mfg Co., Inc. Hartford, CT | M-4(1) SS/FFP | ACALA | Mar-98 | Oct-98 | 3785 | _ | Yes | g | |
| FY 97 | Colt's Mfg Co., Inc. Hartford, CT | SS/FFP ACALA | ACALA | Mar-98 | Apr-99 | 10603 | - | Yes | ^o Z | |
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| | Colt's Mfg Co., Inc. Hartford, CT | SS/FFP | ACALA | Mar-98 | Oct-00 | 1484 | + | Yes | 2 | |
| FY 99 | Colt's Mfg Co., Inc. Hartford, CT | | ACALA | Jan-99 | Jun-00 | 0009 | - | Yes | Š | |
| | Colt's Mfg Co., Inc. Hartford, CT | | ACALA | Jan-99 | Dec-00 | 310 | - | Yes | 2 | |
| | | SS/FFP | | | | | | | | |
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| REMARKS: | | | | | | | | | | |

| FY 98 / 99 RUDGET PRODUCTION SCHEDULE | UCTION | SCH | EDULE | ,,, | | | Į E | P-1 Item Nomenciature | Menc | ature. | | 5.56 CARBINE M4 (G14904) | NE M | 4 (61 | (904) | | | | | | Date | | | | Feb | February 1998 | 866 | | |
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| Hardware | 1 95⪻ | - | A 5 | 57.5 | Н | 50.4 | | 2.0 | | 1.0 | 0.10 | 0 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.02 | 2.0 2 | 2.0 2. | 2.0 2. | 2.0 2.0 | 0.2.0 | 0.20 | 0.2.0 | 0.2 | 2.0 | 1.0 | 1.0 | 12.4 |
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| 1 Colt's Mfg. Co. Inc., Hartford CT | 0.5 | + | 2.0 | + | 8.0 | 18 | | - | REORDER | ËR | + | 4 | - | T | | - | † | | 4 | + | | | : 3 T | stainir | ng rate | of 500 | sustaining rate of 500 weapons/ month. | m/suc | nth. |
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| | | | | | | 20> 00F | ОШС | ¬ ∢ Z | ≥ < ¤ | ≥ < > | 7 D Z | 70- | A ⊃ G | 0 O F | z 0 > | ОШО | ¬ < Z | ≥ < 0 | < 0.00 | ≥ < > | 727 | < ⊃ ¢ | ωшα | |
| Σ | Ц | PRODUC | PRODUCTION RATES | | Dr. 4011FP | ┺ | L | 1 | μ | 1 1 | MINIE | ADMIN LEAD TIME | Ш | L | MFR | + | TOTAL | | Ë | REMARKS | | | | |
| NAMAN NAMAN | _ | N | 7.8.4 | MAX | | Number | INITIAL | | \dagger | Prior 1 Oct. | | After | Affer 1 Oct. | ₹ | Affer 1 Oct. | + | Affer 1 Oct | Ö Ö | To rel | tain Co trial Ba | it in the | To retain Colt in the Small Arms Industrial Base, a multi-vear contract was | contra | ct was |
| Colt's Mfg. Co. Inc., | | 0.5 | 2.0 | 8.0 | ╀ | _ | REORDER | ER | H | 7 | | | 17 | Ш | 4 | t | 31 | | award | ded in (| Oct 97, | awarded in Oct 97, providing a | 8 2 | |
| | | | | | | | INITIAL | | H | | П | | | Ц | Н | H | | | weap | na mna Namos | staining nonth. | minimum sustaining rate of 500 weapomns/month. Balance of annual | 500 | lasi |
| | + | | | 1 | | | HEORD | E. | t | ١ | T | | ı | 1 | ı | † | 1 | | requir | rement | s will a | requirements will also be awarded to Colt | varded | to Colt |
| | | | | | | | REORDER | ER | | | | | | | | t | | | based | don a | ecent i | based on a recent legal decision. Initial | islon. | Initial |
| | | | | | | | INITIAL | | H | | П | | Ш | Ц | П | H | | П | termir | nation | of FY96 | termination of FY96 contract. Funded | it Fun | per |
| | + | 1 | | + | | | REORDER | E | \dagger | ı | T | ۱ | | 4 | ı | t | ١ | T | delive | ary peri | od and | delivery period and MFR leadtimes | adtimes | |
| | Ц | | | H | | | REORDER | E | Н | П | П | | | Ц | | H | | | acod. | nroduntion rates | stae | | | |

| EV 98 / 99 RIINGET PRODUCTION SCHEDIII E | CTC | S | HEDE | ш | | | <u>-</u> | P-1 Item Nomenclature: | E E | ature: | 5.56 (| SARBIL | 5.56 CARBINE M4 (G14904) | G1490 | 4 | | | | | Cate | <u></u> | | | Feb | February 1998 | 866 | | |
|--|---------------|--------|------------------|-------|-------------|----------------|----------|------------------------|--------------|----------|---------|----------------|--------------------------|----------|----------------|-------|-------|-------------|----------------|-------------|----------------|------------|-----------------|---|------------------|----------|---------------------------------------|---|
| | - | | | PROC | ACCEP. | BAL | 1 | | l | F | scal | Fiscal Year 00 | 00 | | | | L | l | | ľ | Fiscal Year 01 | 8 9 | <u>-</u> | ı | 1 | ı | r | - |
| | Σ | | Ø | ΔT | PRIOR | DUE | | | H | | | ۲ | Calendar Year 00 | dar \ | ear (| o | | | H | | ٢ | alen | Idar | Calendar Year 01 | 5 | | | 4 |
| COST ELEMENTS | пα | F | ш сс > | Each | TO 1 OCT | AS OF 1 OCT | 00- | z 0 > | ¬ ∢ Z | тшв | Σ < α | < 0. CC | Σ<≻ | 7 D Z | 4 D @ | ωшσ | 0 O F | z 0 > | O III O | ¬ < Z | Σ < α | A G R | ≥ < ≻ | っ ⊃ Z | 227 | ∢⊃ซ | ωшα | F E |
| Hardware | 1 9 | 95⪻ | ٧ | 57.5 | 57.5 | | | | | Н | | | | Н | Н | | | | | \dashv | • | | | | | | | |
| | 1 | 95⪻ | z | 6.0 | 6.0 | | | | | | | | \forall | H | Н | | | | | \dashv | \dashv | Ц | | \Box | | | | |
| | 1 | 95⪻ | SDAF | 0.5 | 0.5 | | | | | | | | | _ | | | | | | | | | | | | | | |
| | 1 | | FMS | 0.2 | 0.2 | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 F | FY96 | A | 6.0 | 6.0 | | | | _ | | | | | | | | | | | | | | | | | | | |
| | 1 | FY96 | z | 1.8 | 1.8 | | | | Н | Н | | | | Н | | | | | | | Ц | Ц | _ | | | | | |
| | 1 | FY96 | ОТН | 1.5 | 1.5 | | | | | | | | | _ | | | | | | | Н | Ц | _ | | | | | |
| | 1 | | ОТН | 1.0 | 1.0 | | | | Н | Ц | | | | | \dashv | | | | _ | \dashv | | | | | | | | |
| | <u>-</u> | FY 96 | ٧ | 3.8 | 3.8 | | | | | - | | | | \dashv | | 4 | | 7 | | \dashv | 4 | | _ | 4 | _ | | | |
| | 1 F | FY97 | ٧ | 10.6 | 3.4 | 7.2 | 0.6 | 9.0 | 0.6 | 0.6 0.6 | 9.0 | 9.0 | 0.6 | 0.6 | 0.6 0.6 | 3 0.6 | | | _ | \dashv | - | 4 | _ | _ | | | | |
| | 1 F | FY97 | z | 1.8 | 1.8 | | | | | | | | \exists | \dashv | \dashv | _ | | 7 | | \dashv | \dashv | _ | _ | 4 | | | | |
| | 1 F | FY98 | ٧ | 6.0 | 2.0 | 4.0 | 0.5 | 0.5 | 0.5 0. | 0.5 0.5 | 5 0.5 | 0.5 | 0.5 | \dashv | \dashv | 4 | | | _ | \dashv | \dashv | 4 | | \perp | | | | |
| | 1 F | FY 98 | ٧ | 1.5 | | 1.5 | | | | | | | | - | | | 9.0 | 9.0 | 0.3 | - | _ | _ | _ | | | | | |
| | 1 F | FY 99 | ٧ | 6.0 | | 6.0 | | | | _ | | | | 0.5 | 0.5 0.5 | 5 0.5 | 0.5 | 0.5 | | 0.5 0.5 | 5 0.5 | 5 0.5 | 5 0.5 | 10 | | | | |
| | 1 F | FY 99 | ۷ | 0.3 | | 0.3 | | | + | _ | | | | \dashv | \dashv | | | | 0.3 | - | 4 | | 4 | 4 | | | | |
| | | | | | | | 4 | | - | | \Box | | + | \dashv | - | | | ٦ | + | \dashv | + | _ | \dashv | 4 | \perp | | | |
| | | | | | | | _ | | \dashv | 4 | \Box | | \forall | \dashv | + | | | | | \dashv | - | _ | 4 | 4 | | | | |
| | | | | | | | _ | | + | \dashv | \Box | | + | \dashv | \dashv | 4 | | | | + | + | 4 | 4 | 4 | 4 | | | |
| | + | | | | | | 4 | | + | + | \prod | | \forall | \dashv | + | 1 | | 7 | + | + | \dashv | 4 | 4 | 4 | 4 | 1 | | |
| | | | | | | | _ | | \dashv | 4 | | | + | \dashv | - | 4 | | 7 | + | \dashv | 4 | 4 | 4 | 4 | 4 | 1 | | |
| | $\frac{1}{2}$ | | | | | | 4 | | + | \dashv | \prod | | \forall | \dashv | + | 4 | | 1 | + | + | + | 4 | \downarrow | 4 | 4 | _ | | |
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| Total | $\frac{1}{1}$ | | | 99.4 | 80.4 | 19.0 | - | = | = | 1.1 | | 1.1 | = | = | - - | | | = | - - | 0.5 | 0.5 0.5 | 5 0.5 | 5 0.5 | 12 | \downarrow | 1 | | |
| | $\frac{1}{2}$ | | | | | | (| - | + | + | ╁ | ŀ | + | ┿ | + | + | c | Z | + | ╂ | + | + | + | ╀ | 1 | ŀ | ď | I |
| | | | | | | | 00 - | 20> | э ч 2 | . ш a | 2 < a | (D. C | Σ ∢ ≻ | , D Z | , , , | о ш в | 00- | 20> | υшО | . w w | - W CC | (a. a. | € < ≻ | ,) Z | ר כי | (> 0 | оша | |
| 2 | H | PRODUC | PRODUCTION RATES | LES | | | | ╄ | 4 | 1 | 1 | | ADMIN | 1-1 | LEAD TIME | | | MFR | H | TOTAL | ¥ | L | 塡 | RKS | 1 | | 1 | l |
| | L | | | | | REACHED | _ | Number | | | | Pri | Prior 1 Oct. | Н | After 1 Oct. | Oct. | ¥ | After 1 Oct | _ | After 1 Oct | Öct | ٤١ | retair | To retain Colt in the Small Arms | n the S | Small / | To retain Colt in the Small Arms | |
| _ | + | MIN. | ÷ | 1-8-5 | MAX. | å | _ | <u>= </u> | INITIAL | | 1 | | _ | + | 24 | | | 6 | + | 33 | <u></u> | Ĕ | Justria | in Ogs | , a mu | nuyear | contra | Industrial base, a multiyear contract was awarded in Oct 97 providing a minimum |
| 1 Colt's Mfg. Co. Inc., Harfford CT | + | 0.5 | N | 2.0 | 8.0 | 9 | 4 | E . | REORDER | 8 | 1 | | - | + | - | | 1 | 4 | t | 3 | | ng T | stainir | ng rate | of 500 | меа (| sustaining rate of 500 weapons/month, | onth. |
| | + | | | | | | Т | <u> </u> | RECRIPER | g | | | | + | | ı | | | \dagger | | | 88 | lance | of an | nual re | quiren | nents w | Balance of annual requirements will also |
| | + | | | | | L | Ļ | = | INITIAL | | | L | | + | l | | L | l | r | ı | ı | 2 3 | awar | ded to | Colt b | ased o | be awarded to Colt based on a recent | ent ill not |
| | H | | | | | | | T.E. | REORDER | ER | Д | Ц | $\ \ $ | Н | П | | Ц | | Н | П | П | 8. 2 | met o | due to | emine Jermina | ation o | legal decision. Illular leadurings w | 5 |
| | | | | | | | | <u>≤1</u> 0 | INITIAL | , | \prod | | | + | | | | | T | | | 8 | ntract | Fund | leb be | livery p | contract. Funded delivery period and | pu. |
| | | | | | | | 1 | ¥ = | NITIAL | ij | | | | + | | | l | | t | ı | ı | ₹ 8 | FR 168 | MFR leadtimes extended to m continuity in production rales | exten | ided to | MFR leadtimes extended to maintain | 드 |
| | + | | | | | | 7 | <u>Ι</u> α | REORDER | Œ, | L | | | + | | | L | | t | | l | 3 | | | | | , | |
| | | 1 | | | | | l | İ | | | | | | | | l | | | | | l | l | l | | l | l | l | |

| | | Exhibit P-4 | Exhibit P-40, Budget Item Justification Sheet | em Justifica | ation Sheet | | | Care. | | February 1998 | | |
|--|--|---------------------|---|--------------|---------------------------------|------------------------|---------|---------|--------------------------|---------------|-------------|------------|
| Appropriation / Budget Activity/Serial No: | fal No: | | | | | P-1 (tem Nomenclature: | re: | | | | | |
| PROCUREMENT OF | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles | TVEHS / 2 / Weapons | and Other Combat | Vehicles | | | | M4 C | M4 CARBINE MODS (GB3007) | (200 | | |
| Program Elements for Code B Items: | 13: | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | | | | ď | | | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 0.0 | 0.0 | 6.0 | 4.5 | 4.9 | 5.1 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 0.0 | 0.0 | 6.0 | 4.5 | 4.9 | 5.1 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 0.0 | 0.0 | 6.0 | 4.5 | 4.9 | 5.1 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 |
| Fiyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| | | | | | | | | | | | | |

DESCRIPTION: The M4 Carbine Modification Program provides a close combat optic, a modular weapon suite, an improved buttstock, a top carry sling and a permanently affixed back-up iron sight for the M4 Carbine. Also it provides the capability for firing the M203A1 Grenade Launcher (GL) with the M4 Carbine. JUSTIFICATION: The close combat optic allows the soldier to fire a weapon with both eyes open allowing greater awareness of events happening in close proximity and and allows the combat commander to custom configure weapons based upon the mission. The top sling maintains the Carbine in an upright positiion freeing the user's improves hit probability in daylight, low light level, wet weather and other adverse conditions. The modular weapon system is a key component of Land Warrior Lethality hands for other tasks. The permanent back-up, rear opertive, iron sight provides that capability in the event it becomes immediately necessary. The M203A1 Grenade Launcher insures campatibility with the M4 Carbine. The improved buttstock provides the rifleman an ergonomically optimized buttstock for the M4 Carbine.

| | Exhibit P- | Exhibit P-40M Budget Item Justification Sheet | em Justific | ation Sheet | | | Date | | February 1998 | | |
|--|----------------------|---|-------------|--------------------------------|-----------------------|---------|---------|--------------------------|---------------|-----|-------|
| Appropriation / Budget Activity/Serial No. PROCMBT VEHS / 2 / Weapons and Other Combat Vehicles | CMBT VEHS / 2 / Weap | ons and Other Combat Ve | photes | | P-1 Item Nomenclature | 9 | M4C | M4 CARBINE MODS (GB3007) | 3007) | | |
| Program Elements for Code B Items | | | Code | Other Related Program Elements | am Elements | | | | | | |
| Description | | Fiscal Years | | | | | | | | | |
| OSIP NO. Classification | ation | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | TC | Total |
| Combat Optics | bine) | | | | | | | | | | |
| TBD1 Operational | nal | 6.0 | 3.1 | | 2.6 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 13.1 |
| M203 for M4 Carbine | | | | | | | | | | | |
| TBD2 Operational | onal | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| Modular Weapon System (M4 Carbine) | Carbine) | | | | | | | | | | |
| TBD3 Operational | onal | 0.0 | 1.0 | 3.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 |
| M4 Improved Buttstock | | | | | | | | | | | |
| TBD4 Operational | naf | 0.0 | 0.0 | 0.7 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| Totals | | 6.0 | 4.5 | 4.9 | r. | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 |
| | | | | | | | | | | | |
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| The state of the s | | | | | | | | | | | |
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| INDIVIDUAL MODIFICATION | Date February 1998 |
|---|---|
| MODIFICATION TITLE: Close Combat Optics (M4 Carbine) TBD1 | |
| MODELS OF SYSTEMS AFFECTED: M4 Carbine, M68 Sight Reflex | |
| DESCRIPTION / JUSTIFICATION: | |
| The M68 Sight will be installed on the M4 Carbine. The close combat optic allows the soldier to fire a weapon with both eyes open allowing greater awareness of events happening in close proximity. The close combat optic gives the soldier greater hit probability in daylight, low light level was the soldier greater hit probability in daylight, low light | fire a weapon with both eyes open allowing oldier greater hit probability in daylight, low light |
| | |
| | |
| | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: PLANNED AC | ACCOMPLISHED |
| Development/Operational Test Tyne Classification (I RIP) | |
| 4 | |
| First Production Hardware Delivered First Unit Equipped 2098 | |
| Probabilistics Orbindials | |
| Installation Scriedule: Pr Yr FY 1997 FY 1999 | FY 2000 FY 2001 |
| Totals 1 2 3 4 1 2 3 4 1 2 3 Inputs | 4 1 2 3 4 1 2 3 4 |
| EV 2002 EV 2003 | EV 2000 |
| 3 4 1 2 3 4 1 | 3 4 Comple |
| Inputs | |
| OF IMPLEMENTATION: Unit Application ADMINISTRATIVE LEADTIM | PRODUCTION LEADTIME: 6 Months |
| Contract Dates: FY 1997 Jul 97 FY 1998 Jan 98 Delivery Date: FY 1997 Jul 98 FY 1998 Mar 99 | FY 1999 Jan 99 FY 1999 Jun 99 |
| | |

| FINANCIAL PLAN; (\$ in Millions) FINA | | | | | | N | ANIDON | - MODIF | INDIVIDUAL MODIFICATION | 7 | | | | | | | Date | | Februs | February 1998 | |
|--|----------------------------------|------|---------------|--------|--------|---------|--------|---------|-------------------------|-------|-------|------|-----|-----|------|-----|------|-----|--------|---------------|--------|
| AL PLAN; (\$ in Millions) | MODIFICATION TITLE (Cont): | | ŏ | ose Co | mbat C | ptics (| M4 Car | bine) T | 'BD1 | | | | | | | | | | | | |
| FY 1995 | FINANCIAL PLAN: (\$ in Millions) | | | | | | | | | | | | | | | | | | | | |
| Contractor Support | | and | 1996 Prior | ΕŸ | 1997 | FY 1 | 966 | FY 1 | 666 | FY 2 | 000 | FY 2 | 901 | FY | 3002 | FY | 2003 | F | O | TOTAL | ¥. |
| 1469 1482 | | ģ | 49 | Qty | €9 | Qty | €9 | Oty | \$ | Qty | 49 | Qty | \$ | Qty | \$ | Qty | ₩ | Qly | ₩ | Qty | ₩ |
| Nonrecurring O.746 2.863 0.859 2.401 5.196 0.000 | RDT&E | | 1.469 | | | | | | | | | | | | | | | | | | 1.469 |
| 207766 2.863 0.859 1.2008 2.401 5.196 5.19 | PROCUREMENT | | | | | | | - | | | | | | , | | | | | | | |
| Outling 0.746 2.863 0.6859 2.401 5.196 Outling 0.0054 0.140 0.139 0.138 0.115 Outling 0.0050 0.0050 0.0050 0.0050 Outling 0.0020 0.0020 0.0020 0.0020 Outling 0.0020 0.0020 0.0020 0.0020 Outling 0.0020 0.0020 0.0020 0.0020 Outling 0.0020 0.0020 0.0020 0.0020 Outling 0.0020 0.0020 0.0020 0.0020 Outling 0.0020 0.0020 Outling 0.0020 Outling 0.0020 Outling 0.0020 Outling 0.0020 Outling 0.0020 Outling 0.0020 Outling 0.0020 Outling 0.0020 Outling 0.0020 Outling 0.0020 Outling 0.0020 Outling 0.0020 Outling 0.0020 Outling 0.0020 Outling 0.0020 Outling 0.0020 Outling 0.0020 | Kit Quantity | 3888 | | 14932 | | 4480 | | 12005 | | 20785 | | | | | _ | , | | | | 26090 | |
| During 0.746 2.863 0.859 2.401 5.196 0.084 0.140 0.139 0.139 0.115 0.010 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 1.14421 1500 10505 2.0785 1.1 2.6 5.196 | Installation Kits | | | | | | | | | | | | | | | | | | | | |
| 0.084 0.146 0.139 0.138 0.115 0.105 | Installation Kits, Nonrecurring | | | | | | | | | | 9 | | | | _ | | | | | | |
| Pig 0.084 0.140 0.139 0.138 0.115 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.020 0. | Equipment | | 0.746 | | 2.863 | | 0.859 | | 2.401 | | 5.196 | | | | | | | | | | 12.065 |
| Proof 0.054 0.140 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.020 | Equipment, Nonrecuring | | | | | | | | | | | | | | | | | | | | 0 |
| port 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.020 0 | Engineering Support | | 0.084 | | 0.140 | | 0.139 | | 0.138 | | 0.115 | | | | - | | | | | | 0.616 |
| port 0.010 0.020 0 | Testing | | 0.050 | | 0.050 | | 0.050 | | 0.050 | | 0.050 | | | | | | | | | | 0.250 |
| Port | Integrated Logistical Support | | 0.010 | | 0.020 | | 0.020 | | 0.020 | | 0.020 | | | | | | | | | | 0.090 |
| Kits 3888 1-4421 1-4421 1-500 10505 1500 20785 1500 20785 1500 31290 1-500 1500 | Fielding | | 0.010 | | 0.020 | | 0.020 | | 0.020 | | 0.020 | | | | | | | | | | 0.090 |
| 1 Kits 3868 14421 14421 1500 10505 1500 10505 1500 10505 1500 10505 1500 10505 1500 10505 1500 10505 1500 10505 1500 10505 1500 10505 1500 10505 1500 10505 1500 10505 1500 10505 1500 10505 1500 10505 1500 10505 150 | Other | | | | | | | | | | | | | | | | | | | | |
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| t Kits 3888 14421 4480 10505 1050 | | | | | | , | | | | | | | | | | | | | | | |
| 1 Kits 3888 | | | | | | | | | | | | | | | | | | | | | |
| rior Eqpt - Kits 3888 3888 11 - Kits 4480 12 - Kits 1500 15 - Kits 20785 11 - Kits 1500 12 - Kits 12 - Kits 12 - Kits 13 - Kits 13 - Kits 11 - Kits 14 - Kits 11 - Kits 15 - Kits 12 - Kits 15 - Kits 11 - Kits 15 - Kits 11 - Kits 15 - Kits 11 - Kits 15 - Kits 11 - Kits 15 - Kits 11 - Kits 15 - Kits 11 - Kits 15 - Kits 11 - Kits 16 - Kits 11 - Kits 17 - Kits 11 - Kits 18 - Kits 11 - Kits 18 - Kits 11 - Kits 18 - Kits 11 - Kits 18 - Kits 11 - Kits 19 - Kits 11 - Kits 10 - Kits 11 - Kits 11 - Kits 11 - Kits 12 - Kits 11 - Kits 12 - Kits 11 - Kits 12 - Kits 11 - Kits 12 - Kits 11 - Kits 13 - Kits 11 - Kits 14 - Kits 11 - Kits 15 - Kits 11 - Kits 16 - Kits | Installation of Hardware | | | | | | | | | | | | | | | | | | | | |
| 11 - Kits 4480 12 - Kits 1500 1500 10505 1500 10505 1500 10505 1500 10506 1500 10506 1500 10506 1500 10506 1500 10506 1500 10506 1500 10506 1500 10506 1500 10506 1500 11 1500 20401 11 2.6 12 11 11 2.6 12 11 12 11 12 11 12 12 12 12 13 11 14 11 15 12 15 12 15 12 15 12 15 12 15 12 15 12 15 12 16 12 17 12 18 12 18 12 18 12 18 12 18 12 18 <td< td=""><td>FY 1996 & Prior Eqpt Kits</td><td></td><td></td><td></td><td></td><td>3888</td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td>3888</td><td></td></td<> | FY 1996 & Prior Eqpt Kits | | | | | 3888 | | | | | | | - | | | | | | | 3888 | |
| 11 - Kits 11 - Kits 11 - Kits 11 - Kits 11 - Kits 11 - Kits 11 - Kits 11 - Kits 11 - Kits 12 - Kits 12 - Kits 13 - Kits 14 - Kits 15 - Kits 15 - Kits 11 - Kits 12 - Kits 13 - Kits 14 - Kits 15 - Kits 16 - Kits 17 - Kits 18 - Kits 19 - Kits 10 - Kits 11 - Kits 12 - Kits 13 - Kits 14 - Kits 15 - Kits 16 - Kits 17 - Kits 18 - Kits 19 - Kits 10 - Kits 11 - Kits 12 - Kits 13 - Kits 14 - Kits 15 - Kits 16 - Kits 17 - Kits 18 - Kits 18 - Kits 19 - Kits 11 - Kits 12 - Kits 13 - Kits 14 - Kits 15 - Kits 16 - Kits 17 - Kits 18 - Kits 18 - Kits | FY 1997 Eqpt Kits | | | | | 511 | | 14421 | | | | , | | | | | | | | 14932 | |
| 11 - Kits 11 - Kits 11 - Kits 11 - Kits 11 - Kits 11 - Kits 11 - Kits 12 - Kits 13 - Kits 14 - Kits 15 - Kits 15 - Kits 11 - Kits 11 - Kits 12 - Kits 13 - Kits 14 - Kits 15 - Kits 16 - Kits 17 - Kits 18 - Kits 19 - Kits 10 - Kits 11 - Kits 12 - Kits 13 - Kits 14 - Kits 15 - Kits 16 - Kits 17 - Kits 18 - Kits 19 - Kits 10 - Kits 11 - Kits 12 - Kits 13 - Kits 14 - Kits 15 - Kits 16 - Kits 17 - Kits 18 - Kits 18 - Kits 19 - Kits 10 - Kits 11 - Kits 12 - Kits 13 - Kits 14 - Kits 15 - Kits 16 - Kits 17 - Kits 18 - Kits 18 - Kits 18 - Kits | FY 1998 Eqpt Kits | | | | | | | 4480 | | | | | | | | | | | | 4480 | |
| 11 - kits 20785 20785 11 - kits 20401 31290 ent 20401 3.26 5.4 | FY 1999 Eqpt Kits | | | | | | | 1500 | | 10505 | | | | | - | | | | | 12005 | |
| of kits ot kits ot kits ent ent ment Cost 0.9 3.1 1.1 2.6 5.4 | FY 2000 Eqpt kits | | | | | | | | | 20785 | | | | | | | | | | 20785 | |
| of kits ot kits ent ment Cost 0.9 3.1 1.1 2.6 5.4 | FY 2001 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| ent ment Cost 0.9 3.1 1.1 2.6 5.4 5.4 | FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| ent ment Cost 0.9 3.1 1.1 2.6 5.4 5.4 | FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| 0.9 3.1 1.1 2.6 5.4 | TC Equip-Kits | | | | 7 | 1 | | 1 | 1 | | 1 | | | | | | | | | | |
| 0.9 3.1 1.1 2.6 | Total installment | | | | | 4388 | | 20401 | | 31290 | | | | | | | | | | 26090 | |
| | Total Procurement Cost | | 0.9 | | 3.1 | | 1:1 | | 5.6 | | 5.4 | | | | | | | | | | 13.1 |

| NODIFICATION TITLE (Cont): M203 for M4 Carbine TBD2 PV 1999 FV 1999 FV 2000 FV 2001 FV 2003 | | | | | | ≥ | DIVIDUX | LMCD | INDIVIDUAL MODIFICATION | z | | | | | | Date | | February 1998 | ry 1888 | |
|---|----------------------------------|------|--------------|---------|-------|-------|---------|------|-------------------------|----------|-----|--------|----------|---------|----------|--------|---|---------------|---------|-------|
| FY 1996 | MODIFICATION TITLE (Cont): | | M | :03 for | M4 Ca | rbine | TBD2 | | | | | | | | | | | | | |
| Part Place Par | FINANCIAL PLAN: (\$ in Millions) | | | Δ. | | | | | | | | | | | | | | | | |
| Oty \$ Oth \$ Oty \$ Oth | | FY 1 | 996 Prior | Ā | 1997 | Ā | 1998 | F | 1999 | FY 2 | 000 | FY 200 | F | FY 2002 | - | Y 2003 | ľ | C | 101 | A. |
| Nonrecurring 0.022 0.022 0.000 | | οţὸ | 69 | o Ş | 49 | Qţ | 4 | Qty | \$ | Qty | 49 | | Ö | | O | | | | Qty | 49 |
| Nomeouning 0.222 0.0 eourning 0.0222 teal Support 0.0040 ou Support 0.0080 ou Support 0.080 ou Support 0.0080 ou Support 0.0080 ou Support 0.0080 ou Support 0.0080 ou Support 0.0080 ou Support 0.0080 ou Support | HDT&E | | 0.631 | | | | | | | | | | | | | | | | | 0.631 |
| During 0.222 0.0 10 0.070 10 0.040 | PROCUREMENT | | | | | | | | | | | | | | | | | | | |
| 100 0.000 0. | Kit Quantity | | | 2576 | | | _ | | | | | | | | | | | | 2576 | |
| Proport 0.022 0.070 Poort 0.030 Poort 2576 1 - Kits 2576 | Installation Kits | | | | | | | | | | | | | | | | | | | |
| 11-Kits 1-1- | Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | | | |
| 100 0.070 0.000 0. | Equipment | | | | 0.222 | | | | | <u>-</u> | | | | | | | | | | 0.222 |
| Poort 0.040 port 0.040 | Equipment, Nonrecurring | | | | | | | | | | | | | | | | | | | 0 |
| 1 Kits | Engineering Support | | | | 0.070 | | | | | | | | | | | | | | | 0.0.0 |
| 0.040 0.040 0.03 | Testing | | | | | | | | | | | | | | | | | | | |
| 1 Kits | Integrated Logistical Support | | | | 0.040 | | | | | | | | | | | | | | | 0.040 |
| 1 Kits 1 Kits 2576 2576 1 Kits 2576 2576 | Fielding | | | | 0.030 | | | | | | | | | | | | | | | 0.030 |
| 1 Kits 1 | Other | | | | | | | | | | | | | | | | | | | |
| 1 Kits 2576 2576 2576 2576 2576 | Interim Contractor Support | | | | | | | | | | | | | | | | | | | |
| 1 Kils 2576 2576 2576 | | | | | | | | | | | | | | | | | | | | |
| 1 Kits 1 Kits 2576 2576 10 0.4 | | | | | | | | | | | | | | | | | | | | |
| 1 Kits 1 Kits 2 Kits 2 Kits 3 Kits 4 Kits 5 Kits 6 Kits 7 K | | | | | | | | | | | | | | | | | | | | • |
| 1 Kits 1 Kits 2576 2576 2576 2576 2576 | | | | | | | | | | | | | | | | | | | | |
| t Kits t Kits 2576 2576 set | | | | | | | | | | | | | | | | | | | | |
| t Kits | Installation of Hardware | | | | | | | | | | | | | | | | | | | |
| 1 - Kits 2576 2576 1 - Kits 1 - Kits 2576 1 - Kits 1 - Kits 1 - Kits 1 - Kits 2576 1 - Kits 2 - Kits 3 - Kits 1 - Kits 2 - Kits 3 - Kits 3 - Kits 3 - Kits 4 - Kits 3 - Kits 3 - Kits 4 - Kits 4 - Kits 3 - Kits 4 - Kits 4 - Kits 4 - Kits 4 - Kits 4 - Kits 5 - Kits 5 - Kits 5 - Kits 6 - Kits 7 - Kits 7 - Kits 7 - Kits 7 - Kits 7 - Kits 8 - Kits 8 - Kits 8 - Kits 9 - Kits 8 - Kits 8 - Kits 1 - Kits 1 - Kits 1 - Kits 1 - Kits 1 - Kits 1 - Kits 1 - Kits 1 - Kits 1 - Kits 2 - Kits 1 - Kits 1 - Kits 2 - Kits 1 - Kits 1 - Kits 3 - Kits 1 - Kits 1 - Kits 4 - Kits 1 - Kits 1 - Kits 5 - Kits 1 - K | FY 1996 & Prior Eqpt Kits | | | | | | | | | | | | | | | | | | | |
| t1 - Kits t2 - Kits t3 - Kits t4 - Kits t5 - Kits t5 - Kits t6 - Kits t7 - Kits t7 - Kits t8 - Kits table 1 table 2 table 3 table 4 table 5 table 4 table 4 table 4 table 4 table 4 table 4 table 4 table 4 table 4 table 4 table 4 <td>FY 1997 Eqpt Kits</td> <td></td> <td></td> <td></td> <td></td> <td>2576</td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2576</td> <td></td> | FY 1997 Eqpt Kits | | | | | 2576 | | | | | , | | | | | | | | 2576 | |
| 1 - Kits 1 - Kits 1 - Kits 1 - Kits 2 - Kits 2 - Kits 9 - Kits 1 - Kits 2 - Kits 9 - Manual Cost 1 - Kits 1 - Kits 1 - Kits 1 - Kits 2 - Kits 1 - Kits 2 - Kits 2 - Kits 2 - Kits 3 - Kits 4 - Kits 5 - Kits 6 - Kits 7 - Kits 8 - Kits 9 - Kits 1 - Kits 1 - Kits 2 - Kits 2 - Kits 2 - Kits 2 - Kits 3 - Kits 4 - Kits 5 - Kits 6 - Kits 7 - Kits 8 - Kits 9 - Kits 1 - Kits 1 - Kits 2 - Kits 2 - Kits 2 - Kits 3 - Kits 4 - Kits 5 - Kits <t< td=""><td>FY 1998 Eqpt Kits</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | FY 1998 Eqpt Kits | | | | | | | | | | | | | | | | | | | |
| tr-kits tr-kits tr-kits tr-kits tr-kits tr-kits tr-kits tr-kits ant ment Cost | FY 1999 Eqpt Kits | | | | | | | | | | | | | | - | | | | | |
| ot - kits ot - kits ot - kits ent 2576 ment Cost 0.4 | FY 2000 Eapt kits | | | | | | | | | | | | | | | | | | | |
| vt kits vt kits ent ment Cost 0.4 | FY 2001 Eapt kits | | | | | | | | | | | | | | | | | | | |
| ort kits ent ment Cost | 15 2000 VI | | | | | | | | | | | | | | | | | | | |
| ent Cost 0.4 2576 2576 2576 | TY COOK ENDS | | | | | | | | | | | | | | | | | | | |
| ent ment Cost 0.4 2576 2576 2576 | TC Equip-Kits | | | | | | | | | | | | | | | | | | | |
| 0.4 | Total Installment | | | | | 2576 | | | | | | | \vdash | | \vdash | | | | 2576 | |
| | Total Progurement Cost | | | | 0.4 | 1 | | | | | | | | | | | | | | 0.4 |
| | | | | | | | | | | | | | | | | | | | | |

| (NDIVIDUAL MODIFICATION | Date | February 1998 | |
|--|--------------------------|---------------|--------|
| MODIFICATION TITLE: Modular Weapon System (M4 Carbine) TBD3 | | | |
| MODELS OF SYSTEMS AFFECTED: | | | |
| DESCRIPTION / JUSTIFICATION: | | | |
| The modular weapon is a system of mounting rails/methods to allow the custom configuration of M4 Carbines with ancillary items such as optics, night sights, IR laser pointers, the grenade launcher, back-up sights, etc., based upon mission requirements. | h ancillary iter its. | ns such as | |
| | | | |
| • | | | |
| | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: PLANNED ACCOMPLISHED | | | |
| ñ | | | |
| Milestone III Production Decision Production Contract Award 4Q97 | | | |
| Delivered 3Q98 | | | |
| Pist Offic Equipped | | | |
| Installation Schedule: | | | |
| FY 1997 FY 1998 FY 1999 FY | | 2001 | |
| Inputs Outputs | 4 1 | 2 | 4 |
| FY 2002 FY 2003 FY 2004 FY 2005 | Tol | | Totale |
| 3 4 1 2 3 4 1 2 3 4 1 | 4 Complete | | |
| Inputs Outputs | | | |
| APLEMENTATION: Unit Application ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION | 13 | Months | |
| Contract Dates: FY 1997 Apr 98 FY 1998 Oct 99 FY 1999 Dec 00 | | | |

| MODIFICATION TITLE (Cont): | | Mo | dular \ | Weapor | Syste | m (M4 | Modular Weapon System (M4 Carbine) TBD3 | ТВБЗ | | | | | | | | | | | |
|---|----|----------------------|---------|---------|---------|-------|---|-------|-----------------|---|---------|---|---------------|-----|---------|-----|----------|-------|-------|
| FINANCIAL PLAN: (\$ in Millions) | | | | | | | | | | | | | | | | | | | |
| | FY | FY 1996 and Prior | ΕV | FY 1997 | FY 1998 | 998 | FY 1999 | | FY 2000 | ú | FY 2001 | F | FY 2002 | Ε | FY 2003 | | <u>1</u> | TOTAL | Į. |
| | ð | 8 | Š | €9 | Ş | 69 | Oty \$ | 0 | 8 | ğ | \$ | ð | so | Oty | \$ | Qty | \$ | Qty | 8 |
| RDT&E | | 1.158 | 1 | | | | | | | | | | | | | | | | 1.158 |
| PROCUREMENT Kit Orientity | | | 3332 | | 10829 | | 2500 | | | | | | | | | | | 16661 | |
| Installation Kits | | | | | | | 3 | | | | | | | | | | | | |
| Installation Kits, Nonrecurring | | | | | - | | | | | | | | | | | | | | |
| Equipment | | | | 0.880 | | 2.761 | ŏ | 968.0 | | | | | | | | | | | 4.537 |
| Equipment, Nonrecurring | | | | | | | | | | | | | | | | | | | |
| Engineering Support | | | | 0.058 | | 0.200 | o | 0.125 | | | | | | | | | | | 0.383 |
| Testing | | | | 0.020 | | | | | | | | , | | | | | | | 0.020 |
| Integrated Logistical Support | | | | 0.015 | | 0.025 | ö | 0.030 | | | | | | | | | | | 0.070 |
| Fielding | | | | 0.025 | | 0.162 | ŏ | 38 | | | | | | | | | | | 0.225 |
| Other | | | | | | | | | | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | , | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | - . | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | | | | | | | |
| EV 1996 & Prior Fant Kits | | | | | | | | | | | | | | | | | | | |
| EV 1997 East Kits | | | | | 2000 | | 1332 | | | | | | | | | | | 3332 | |
| 1000 Table | | | | | } | | 040 | | 9 | | | | | | | | | 10000 | |
| FY 1996 Eqpt NIS | | | | | | | 0010 | - | 2001 | | | | | | | | | 62001 | |
| FY 1999 Eqpt Kits | | | | | | | | ¥ | 3 | | | | | | | | | 200 | |
| FY 2000 Eqpt kits | | | | | | | | | | | | | | | -1 | | | | |
| FY 2001 Eqpt kits | | | | | | | | | | | | | | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | , | | | | |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | | | | | | | | | | | | | | |
| Total Installment | | | | | 2000 | | 9500 | 5 | 5161 | | | | | | | | | 16661 | |
| Total Procurement Cost | | | | 1.0 | | 3.1 | | 1.1 | | | | | | | | | | | 5.2 |

| | | | | N. | DIVIDUA | L MODI | INDIVIDUAL MODIFICATION | 7 | | | | | | | Date | | Februa | February 1998 | |
|----------------------------------|-----------|--------|----------------------------|---------|---------|--------|-------------------------|---------|-----|---------|-----|---------|---------|------|---------|----|--------|---------------|-------|
| MODIFICATION TITLE (Cont): | Ä | 4 Impr | M4 Improved Buttstock TBD4 | uttstoc | k TBD4 | | | | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | EV 4006 | | | | | | | | | | | | | | | | | | |
| | and Prior | F | FY 1997 | F | FY 1998 | ΕŸ | FY 1999 | FY 2000 | 000 | FY 2001 | 100 | FY | FY 2002 | FY 2 | FY 2003 | TC | 0 | TOTAL | AL |
| | Oty \$ | άç | ક | Qty | \$ | Qty | 49 | Ot⁄ | ₩ | Ωţζ | છ | Q St | ક્ર | Qty | 69 | δţ | €9 | Ωţ | ₩ |
| RDT&E DDOC!IDEMENT | 0.377 | | | | | | | | | | | | | | | | | | 0.377 |
| Kit Quantity | | | | 10300 | | 50571 | | | | | | | | | | | | 60871 | |
| Installation Kits | | | | | | | | | | | | | | | | | | | |
| Installation Kits, Nonrecurring | _ | | | | | | | | | | | | | | | | | | |
| Equipment | | | | | 0.555 | | 1.381 | - | | | | | | | | | | | 1.936 |
| Equipment, Nonrecuring | | | | | 1900 | | 200 | | | | | | | | | | | | 0 |
| Engineering Support | | | | | 0.000 | | 2,0,0 | | | | | | | | | | | | 0.010 |
| Integrated Logistical Support | | | | | 0.020 | | 0.005 | | | - | | | | | | | | | 0.025 |
| Fielding | | | | | | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | | | - | | | | |
| FY 1996 & Prior Eapt Kits | | | | | | | | | | | | | | | | | | | |
| FY 1997 Funt Kits | | | | | | | | | | | | | | | | | | | |
| FY 1998 Fant Kits | | | | | | 10300 | | | | | | - | | | | | | 10300 | |
| FY 1999 Eapt Kits | - | | | | | 35000 | | 15571 | | | | | | | | | | 50571 | |
| FY 2000 Eapt kits | | | | | | | | | | | | | | | | | • | | |
| FY 2001 Egpt kits | | | | | | | | | | | | | | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | | |
| FY 2003 Eapt kits | | | | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | | | | | | | | | | | | | | |
| Total Installment | | | | | | 45300 | | 15571 | | | | | | | | | | 60871 | |
| Total Procurement Cost | | | | | 0.7 | | 1.4 | | | | | | | | | | | | 2.1 |
| | | | | | | | | | | | | | | | | | | | |

| | | | | | | | ľ | Date: | | | | |
|--|------------------|-------------------|-------------------------|------------------------|---|------------------------|-----------|---------|-----------------------------|---------------|-------------|------------|
| | | Exhibit P-4 | Exhibit P-40, Budget It | em Justification Sheet | tion Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | I No: | | | | | P-1 Item Nomenclature: | re: | | | | | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles | VPNS & TRKD CMB1 | VEHS / 2 / Weapon | and Other Combat \ | Vehicles | | | | M119 N | M119 MODIFICATIONS (GC0401) | 20401) | | |
| Program Elements for Code B Items: | ió | | | Code: | Other Related Program Elements: | ım Elemenis: | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Oty | | | | | | | | | | | | |
| Gross Cost | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 4.8 | 2.9 | 3.2 | 0.0 | 0.0 | 0.0 | 15.8 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 4.8 | 2.9 | 3.2 | 0.0 | 0.0 | 0.0 | 15.8 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 4.8 | 2.9 | 3.2 | 0.0 | 0.0 | 0.0 | 15.8 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| DESCRIPTION: Light Artillery System Improvement Plan | ht Artillery Sy | stem Improv | | (LASIP) for the | (LASIP) for the 105mm, M119A1 Light, Towed Howitzer | 119A1 Light, | Towed How | itzer | | | | |

initiates this process by correcting known deficiencies, improving reliability, availability and maintainability (RAM), and providing solutions to requests for minor operational with growth potential. Now that 418 M119A1 howitzers have been fielded, it is time to realize that growth potential. The Light Artillery System Improvement Plan (LASIP) JUSTIFICATION: The 105mm M119A1 Light, Towed Howitzer was selected as the weapon of choice for the light forces because it was a nondevelopmental item (NDI) enhancements. The LASIP was developed by the M119A1 Howitzer Improvement Team (HIT), chartered specifically to respond to improvements requested by field artillery units, the U.S. Army Field Artillery School (USAFAS) and the U.S. Army Training and Doctrine Command (TRADOC).

| | | | | Total | 12.8 | | 16.8 | 29.6 | |
|---|--|-----------------------------------|--------------|----------------|-------------------------|-----------------|-------------|--------|--|
| | | | | TC | 0.0 | | 13.9 | 13.9 | |
| February 1998 | 01) | | | FY 2003 | 0.0 | | 0.0 | 0.0 | |
| - | M119 MODIFICATIONS (GC0401) | | | FY 2002 | 0.0 | | 0.0 | 0.0 | |
| Date | M119 MO | | | FY 2001 | 0.3 | | 2.9 | 3.2 | |
| 5 | | | | FY 2000 | 2.9 | | 0.0 | 2.9 | |
| | P-1 Item Nomenclature | i Elements | | FY 1999 | 4.8 | | 0.0 | 4.8 | |
| ion Sheet | d. | Other Related Program Elements | | FY 1998 | 4.9 | | 0.0 | 4.9 | |
| em Justifica | hicles | Code | | FY 1997 | 0.0 | | 0.0 | 0.0 | |
| Exhibit P-40M Budget Item Justification Sheet | and Other Combat Ve | | Fiscal Years | FY 1996 | 0.0 | | 0.0 | 0.0 | |
| Exhibit P-4(| VEHS/2/Weapons | | | | | | | | |
| | n / Budget Activity/Serial No. PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles | Ş | | Classification | Operational | | Operational | | |
| | Appropriation / Budget Activity/Serial No. PROCUREMENT OF WPNS | Program Elements for Code B Items | Description | OSIP NO. | Block 1 Upgrade TBD1 | Block 2 Upgrade | TBD2 | Totals | |

| | | | $\ \ $ | | | INDIN | INDIVIDUAL MODIFICATION | ODIFIC | ATION | | | | | $\ \ $ | | Date | | February 1998 | 1998 | П |
|--|--------------------------|-------------------|----------------------|---------------------|--------------------------|---------------------|--------------------------|--------------------|----------------------|----------------|-----------------------|---------------------------|----------------|----------------------|-----------------|--|----------------------|---------------------|------------------|--------|
| MODIFICATION TITLE: | Block | 1 U | Block 1 Upgrade TBD1 | TBD1 | | | | | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: Howitzer, Light Towed, 105mm M119A1 | S AFFEC | TED: 1 | Howitz | er, Ligl | ht Tow | ³d, 10 | 5mm N | 1119A | _ | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | IFICATION | ج | | | | | | | | | | | | | | | | | | |
| Retrofit Low Temp Recuperator 1-90-05-7875; The seals function only to temperature of -25F not the -50F. Improve Indirect Fire control; Upgrade M187 1-94-05-7911; The M119A1 indirect fire control system fails approximately 14 times more often than other hardware fire control | p Recur | peratc | or 1-90 The M | 0-05-78 | 75; Th indire | e seal | s funct control | ion on syster | ly to tern fails | mpera appro | ature o | of -25F slv 14 | not th | e -50F more o | . Impr | 875; The seals function only to temperature of -25F not the -50F. Improve Indirect Fire control; 1 indirect fire control system fails approximately 14 times more often than other hardware fire control system fails approximately 14 times more often than other hardware fire control system fails approximately 14 times more often than other hardware fire control system fails approximately 14 times more often than other hardware fire control system fails approximately 14 times more often than other hardware fire control system fails approximately 14 times more often than other hardware fire control system fails approximately 14 times more often than other hardware fire control system fails approximately 14 times more often than other hardware fire control system fails approximately 14 times more often than other hardware fire control system fails approximately 15 times more often than other hardware fire control system fails approximately 15 times more often than other hardware fire control system fails approximately 15 times more often than other fails approximately 15 times more often than other fails approximately 15 times more often than other fails approximately 15 times fails approxima | irect Fi | re cont | rol; e cont | 2 |
| systems when Operational Mode Profile (OMP) is factored in. Upgrade Cam Follower Arm; Preventing damage to the cam follower will | peration | al Mo | de Pro | O) elijc | MP) is | factor | ed in. | Upgra | de Car | n Foll | ower / | Arm; P | revent | ing da | mage | o the c | am folic | wer w | = . | |
| improve reliability, availability and maintainability while reducing Operating and Support costs (OSCH). Improve Firing Stays; The design and mounting clearances for the clevis pins on the rear firing stays of the firing platform make it very difficult to attach the stays to the trail during | /, availal ices for t | the cl | and m evis p | aintain ins on t | ability \ the rea | vnile r r firing | educin | g Ope | rating a firing p | and Si | upport n mak | costs te it ve | OSC 7 diffi | H). Im | prove attach | Firing S the sta | stays; I ys to th | he des e trail (| ign an during | 0 |
| emplacement. Improve Traveling Stays; The design and mounting clearances for the clevis pins on the traveling stays make it very difficult to | nprove T | Frave | ling St | ays; Ti | he desi | gn an | d mour | nting c | learanc | ses for | r the c | levis p | ins on | the tra | tveling | stays r | nake it | very di | flicult t | ٥ ٦ |
| production run by the British manufacturer, the brake also used asbestos brake linings. Add Trail Lifting Handles; Due to limited clearance, the user has requested trail lifting handles be designed. | the Bril ed trail li | tish rr ifting | nanufa handk | cturer, | r, the brak designed. | ake ak d. | so used | asbe | stos br | ake lii | nings. | Add 1 | rail Li | fting H | andles | ; Due to | o limite | d clear | ance, t | a t |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: | US / MAJ | OR DE | EVELOF | MENT | MILEST | NES: | | | | | | | | | | | | | | |
| | | | ٩ | Planned | | comp | Accomplished | | | | | | ā | Planned | | Accom | Accomplished | _ | | |
| Validate Materiel change (MC) | change | (MC) | | | | ဗ္ဗ | 3090 | | De | liver F | Deliver First Mod Kit | od Kit | | 4098 | 86 | | | | | |
| Critical Design Review | eview | | | | | g | 3091 | | Ë | st Unit | Equip | First Unit Equipped (FUE) | FUE) | 1099 | 66 | | | | | |
| Complete Testing of Prototype | of Prote | otype | | | | 30 | 3092 | | Ğ | liver | Deliver Last Mod Kit | od Kit | | 3001 | 5 | | | | | |
| Release Technical Data Package (TDP) Award Contract for Modification Kits | al Data F or Modifia | acka | ge (TI کا Kits | JP) 2098 | 80 | - | 1093 | | _ | ast Ur | Last Unit Equipped | ipped | | 4 | 4Q01 | | | | | |
| notelletien Ochadule: | | | | 1 | 3 | | | | | | | | | | | | | | | |
| | Pr Yr | | FY 1997 | 197 | F | | FY 1998 | _ | - | | FY 1999 | | - | Ĺ | FY 2000 | | | FY 2001 | 9 | |
| | Totals | - | 2 | 3 | 4 | - | 2 | 3 | 4 | - | 2 | 3 | 4 | - | 2 | 3 4 | F | 2 | 6 | 4 |
| Inputs | | | | | | | | | 30 | 30 | | | | | | | | 40 | 40 | |
| Outputs | | | | | 1 | \dashv | | + | \dashv | 30 | 30 | 32 | 32 | 32 | 35 | 35 35 | 32 | 40 | 9 | 40 |
| | | FY 2002 | 302 | | | FY 2003 | စ္ | - | 1 | FY 2004 | _ | - | | FY 2005 | | | To | | - | Totals |
| | - | 2 | က | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | - | 2 | 3 | Q Q | Complete | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | 425 |
| Outputs | | | | | _ | \dashv | | - | | | | | | | | _ | | | | 425 |
| METHOD OF IMPLEMENTATION: | ENTATIO | | Unit Application | lication | ΑĽ | MINIS | ADMINISTRATIVE LEADTIME: | E LEAD | TIME: | 4 | | Months | PR | PRODUCTION LEADTIME: | ON LEA | DTIME: | 9 | Months | | |
| Contract Dates: Delivery Date: | | - U | FY 1997 FY 1997 | | | | <u></u> | FY 1998 FY 1998 | Multiple | Multiple | | | <u>}</u> | FY 1999 FY 1999 | Multiple | ele Pe | | | | |
| | | | | | | | • | 200 | | 2.4 | | | | 200 | | 200 | | | | |

| MODIFICATION TITLE (Cont): FINANCIAL PLAN: (\$ in Millions) FY 1996 and Prior Qty \$ | Block 1 Upgrac | ade TBD1 | 10 | | | | | | | | | | | | | |
|--|----------------|-------------|---------|---------|-------|---------|-------|---------|----------|---------|---|---------|-----|----|---------|--------|
| 0 | | | | | | | | | | | | | | | | |
| σ | | | | | | | | | | | | | | | | |
| <u> </u> 6 | FV 1997 | Ĺ | FV 1998 | FY 1999 | 66 | FY 2000 | - | FY 2001 | \vdash | FY 2002 | - | FY 2003 | | 10 | TOTAL | ٦ |
| 1, | Oty \$ | O | 49 | O. V | H | Qty | + | Qty | 5 | Oty \$ | O | \$ | Qty | \$ | Qty | €9 |
| | | | | | | | | | | | | | | | | |
| PROCUREMENT | | | | | | | | | | | | | | | į | , |
| Kit Quantity | | 9 | _ | 125 | | 190 | | | | | | | | | 425 | |
| Installation Kits | | | | | | | | | | | | | | | | |
| Installation Kits, Nonrecurring | | | | | - | | | | | | | | | | | |
| Equipment | | | 4.219 | | 4.107 | | 2.156 | | | | | | | | | 10.482 |
| Equipment, Nonrecurring | | | 0.026 | | | | | | | | | | | | | 0.026 |
| Engineering Change Orders | | | 0.032 | | 0.025 | _ | 0.025 | | | | | | | | | 0.082 |
| Engineering Support | | | 0.218 | | 0.225 | _ | 0.235 | | | | | | | | | 0.678 |
| Training Equipment | | | | | | | | | | | | | | | | |
| Support Equipment | | | | | | | | | | | - | | | | • | |
| Other | | | 0.304 | | | | | | | | | | | | | 0.304 |
| Fielding | | | 0.076 | | 0.111 | | 0.118 | | | | | | | | | 0.305 |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | A M - A | |
| | | | | | | | | | | | | | | | | |
| And the state of t | | | | | | | | | | | | | | | | |
| Transmitter of transmitter | | | | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Nits | | | | | | - | | | | | | - | | | | |
| FY 1997 Eqpt Kits | | | | | | | | | | | | | | | | |
| FY 1998 Eqpt Kits | | | | 110 | 0.295 | | | | | | | | | | 110 | 0.295 |
| FY 1999 Eqpt Kits | | | | 20 | 0.049 | 105 | 0.260 | | | | | | | | 125 | 0.309 |
| FY 2000 Eqpt kits | - | | | | | 32 | 0.067 | 155 | 0.297 | | | | | | 190 | 0.364 |
| FY 2001 Eqpt kits | | | | | | | | | | | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | | |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | | | | | | _ | | | | | |
| Total Installment | | | | 130 | 0.344 | 140 | 0.327 | 155 | 0.297 | | | | | | 425 | 0.968 |
| Total Procurement Cost | | | 4.9 | | 4.8 | - | 2.9 | | 0.3 | | | | | | | 12.8 |

| | | INDIVIDUAL MODIFICATION | FICATION | | | Date | February 1998 | |
|--|---|--|--|--|---|--|----------------------------|--------------|
| MODIFICATION TITLE: Block 2 L MODELS OF SYSTEMS AFFECTED: | Block 2 Upgrade TBD2 NFFECTED: | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | NC: | | | | | | | |
| The rammer/extractor tool currently issued was "borrowed" from the M102 Howitzer which requires the base of the primed cartridge be forcefully struck by a hard rubble plunger. Upgrade elevating handwheel; it is the limiting factor in the system departure angle during cross country movement and is highly susceptible to damage during tactical operations. These items are included in the "To Complete"(TC): | ool currently issued w rd rubble plunger. U is highly susceptible | I was "borrowed" from the M102 Howitzer which requires the base of the primed cartridge be Upgrade elevating handwheel; it is the limiting factor in the system departure angle during co le to damage during tactical operations. These items are included in the "To Complete"(TC): | ne M102 How dwheel; it is t tical operatio | itzer which requi he limiting factor ns. These items | res the base of in the system d are included in | the primed carti leparture angle the "To Comple | ridge be during cross | |
| Improve the Direct Fire Scope; Improving the direct fire scope will provide night capability, improved accuracy and internal boresighting. Modif the Firing Platform clamps; The firing platform must be disengaged from its stowage brackets, lifted manually from the trail, carried completely clear of the trail and placed on the ground before the howitzer can be rolled into its firing position. Modify the Elevation Clutches: This will | Scope; Improving the ps; The firing platforn ced on the ground be | the direct fire scope will provide night capability, improved accuracy and internal boresighting. Modify form must be disengaged from its stowage brackets, lifted manually from the trail, carried completely before the howitzer can be rolled into its firing position. Modify the Elevation Clutches: This will | provide night d from its stor | t capability, impro wage brackets, lii o its firing position | wed accuracy a fted manually fr Modify the E | and internal bore om the trail, car levation Clutche | ssighting. Moried complete | odify ely |
| reduce corrosion damage and lower maintenance costs. Replace compreliable system. This eliminates the collapse of the current tube design. | ye and lower mainter iminates the collapse | tenance costs. Replace competitive tubes in the buffer assembly with a more ose of the current tube design. | competitive esign. | tubes in the buffe | r assembly with | a more | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: | JOR DEVELOPMENT M | LESTONES: | | | | | | |
| | Planned | Accomplished | : | i | Planned | Accomplished | 77 | |
| Validate Materiel change (MC) Critical Design Review | (MC) | 3094 | Delive First U | Deliver First Mod Kit First Unit Equipped (FUE) | 3002 E) 4002 | | | |
| Complete Testing of Prototype | Ñ | - | Delive | Deliver Last Mod Kit | · cu | | | |
| Release Technical Data Package (TDP) Award Contract for Modification Kits | Package (TDP) 4Q01 fication Kits 1Q02 | 01 12 | Last | Last Unit Equipped | 3003 | | | |
| Installation Schedule: | | | | | | | | |
| Pr Yr | FY 1997 | FY 1998 | | FY 1999 | FY 2000 | 0 | FY 2001 | |
| Totals | 2 3 | 4 1 2 3 | 4 | 2 3 | 1 | 3 4 | 2 | 4 |
| Sindino | | | | | | | | |
| | FY 2002 | FY 2003 | FY 2004 | 004 | FY 2005 | To | | Totals |
| | | 1 2 3 4 | 1 2 | 3 4 1 | 2 3 | 4 Complete | | |
| Inputs Outputs | 105 110 | 110 100 | | | | | | 425 425 |
| METHOD OF IMPLEMENTATION: | | ADMINISTRATIVE LEADTIME: | ADTIME: | 6 Months | PRODUCTION LEADTIME: | EADTIME: 6 | Months | |
| Contract Dates: Delivery Date: | FY 1997 FY 1997 | FY 1998 FY 1998 | & & | | FY 1999 FY 1999 | | | |
| | | The state of the s | | | | | | |

| Block 2 Upgrade TBD2 | | | | | | Z | JIVIDUAL | INDIVIDUAL MODIFICATION | CALION | | | | | | | Date | | February 1998 | y 1998 | |
|--|----------------------------------|-------|--------------|--------|--------|------|----------|-------------------------|----------|--------|---|---------|---------|--------|----|------|-----|---------------|--------|--------|
| FY 1996 | MODIFICATION TITLE (Cont): | | Blo | ck 2 U | pgrade | TBD2 | | | | | | | | | | | | j | len. | |
| Prince P | FINANCIAL PLAN: (\$ in Millions) | | | | | | | | | | | | | | | | | | | |
| Nonecuring | | FY 18 | 996 Prior | ΕV | 266 | F | 866 | FY 195 | 66 | FY 200 | F | FY 2001 | <u></u> | Y 2002 | F | 2003 |)L | 0 | TOTAL | Ā |
| Nonrecurring Nonrecurring Nonrecurring Nonrecurring nge Orders port nge Orders port Avere - Kits - K | | Ş | €9 | oty | 69 | οţ | 69 | Qty | \vdash | | O | _ | O | _ | Qt | 69 | ofy | 69 | Qty | 69 |
| Nonrecurring Nonre | RDT&E | | | | | | | | | | | | | | | | | | | |
| and and and and and and and and and and | PROCUREMENT | | | | | | | | | | | | | | | | | | | |
| rders (1- Kits) | Kit Quantity | | | | | | | | | | | 425 | | | | | | | 425 | |
| Curring ng ng ng ng ng ng ng ng ng ng ng ng n | Installation Kits | | | | | | | | | | | | | | | | | | | |
| 100 2480 0.0082 | Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | | | |
| nders rders | Equipment | | | | | | | | | | | 2.4 | 180 | | | | | 8.995 | | 11.475 |
| 1 Kits | Equipment, Nonrecurring | | | | | | | | | | | | | | | | | 0.110 | | 0.110 |
| 1 Kits | Engineering Change Orders | | | | | | | | | | | 0.0 | 182 | | | | | 0.350 | | 0.432 |
| Kits | Engineering Support | | | | | | | | | | | 0.5 | 563 | | | | | 2.425 | | 2.688 |
| Kits | Testing | | | | | | - | | | | | | | | | | | 0.650 | | 0.650 |
| 0.005 0.0022 0.0022 | Support Equipment | | | | | | | | | | | | | | | | | | | |
| 1 Kits | Other | | | | | | | | | | | 0.0 | 385 | | | | | 0.305 | | 0.390 |
| | Fielding | | | | | | | | | | | 0.0 | 220 | | | | | 0.076 | | 0.098 |
| Kis Kis | | | | | | | | | | | | | | | | | | | | |
| Zig. | | | | | | | | | | | | | | | | | | | | |
| Kits | | | | | | | | | | | | | | | | | | | | |
| Kits | | | | | | | | | | | | | | | | | | | | |
| - Kits | Installation of Hardware | | | | | | | | | | | | | | | | | | | |
| trackits trackits trackits trackits trackits trackits trackits trackits trackits | FY 1996 & Prior Eqpt Kits | | | | | | | | | | | | | | | | | | | |
| tt - Kits tt - Kits tt - Kits tt - Kits tt - Kits tt - Kits tt - Kits | FY 1997 Eqpt Kits | | | | | | | | | | | | | | | | | | | |
| tt - Kits tt - Kits tt - Kits tt - Kits tt - Kits tt - Kits | FY 1998 Eqpt Kits | | | | | | | | | | | | | | | | | | | |
| or - kits rt - kits rt - kits rt - kits rt - kits rt - kits | FY 1999 Eqpt Kits | | | | | | | | | | | | | | | | | | | |
| ort - kits At - kits At - kits At - kits | FY 2000 Eqpt kits | | | | | | | | | | | | | | | | | | | |
| ot kits | FY 2001 Eqpt kits | | | | | | | | | | | | | | | | | | | |
| ont kitis | FY 2002 Eqpt kits | | | | | | | | | | - | | | | | | | | | |
| ent | FY 2003 Eqpt kits | | | | | | | - | | | | | | | | | | | | |
| | TC Equip-Kits | | | | | | | - | | | | | | | | | | 0.952 | | 0.952 |
| | Total Installment | | | | | | | | | | | | | | | | | 0.952 | | 0.952 |
| 2.9 | Total Procurement Cost | | | | | | | | | | | | 2.9 | | | | | 13.9 | | 16.8 |

| | | Exhibit P-4 | Exhibit P-40, Budget Item Justification Sheet | em Justifica | ation Sheet | | | Date: | | February 1998 | | |
|---|-----------------|--|---|--------------|---------------------------------|------------------------|---------|---------|-------------------------|---------------|-------------|------------|
| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 Item Nomenclature: | re: | | | | | |
| PROCUREMENT OF | WPNS & TRKD CMB | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles | s and Other Combat | Vehicles | | | | M16 | M16 RIFLE MODS (GZ2800) | 100) | | |
| Program Elements for Code B Items: | :8: | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Oty | | | | | | | | | | | | |
| Gross Cost | 29.7 | 1.2 | 2.8 | 4.9 | 4.7 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 49.5 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 29.7 | 1,2 | 2.8 | 4.9 | 4.7 | 6.2 | 0:0 | 0:0 | 0.0 | 0.0 | 0.0 | 49.5 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 29.7 | 1.2 | 2.8 | 4.9 | 4.7 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 49.5 |
| Fiyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| Letenant and a si selling to will be signed to the The Man of the Company of the | . M4C family | of sillor is | Lader and ac | odizonom fo | , | | | - | | | | |

Rifle Modifications Program provides a close combat optic, a modular weapon system suite, a top carrysling and a permanently affixed, rear aperture, back-up iron sight. DESCRIPTION: The M16 family of rifles is a gas operated, magazine fed, selective fire and shoulder weapon. They are fed by 30 round aluminum magazines. The M16 The modular weapon allows the custom configuration of the M16 rifles with accessories and smaller items. i.e. optics, night sights, laser pointers, based on mission requirements.

JUSTIFICATION: The close combat optic allows the soldier to fire a weapon with both eyes open allowing greater awareness of events happening in close proximity and and allows the combat commander to custom configure weapons with accessories (i.e. day/night sights, laser pointers, ancillary weapons, etc.) based upon the mission. improves hit probability in daylight, low light level, wet weather and other adverse conditions. The modular weapon system is a key component of Land Warrior Lethality The top carry sling maintains the rifle in an upright position freeing the user's hands for other tasks. The permanent back-up, rear aperture, iron sight provides that capability in the event it becomes immediately necessary.

| Exhibit P. | Exhibit P-40M Budget Item Justification Sheet | em Justific | ation Sheet | | | Date | | February 1998 | | |
|--|---|-------------|--------------------------------|-----------------------|---------|---------|-------------------------|---------------|-----|-------|
| Appropriation / Budget Activity/Serial No. PROCOMBT VEHS / 2 / Weapons and Other Combat Vehicles | ons and Other Combat Ve | shicles | | P-1 Item Nomenclature | 8 | M16 | M16 RIFLE MODS (GZ2800) | (00) | | |
| Program Elements for Code B Items | | Code | Other Related Program Elements | m Elements | | | | | | |
| Description | Fiscal Years | | | | | | | | | |
| OSIP NO. Classification | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | TC | Total |
| ar Weapon Sys | | | | | | | | | | |
| TBD1 Operational | 0.0 | 2.9 | 1.5 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.9 |
| Close Combat Optics (M16) | | | | | | | | | | |
| TBD2 Operational | 2.8 | 2.0 | 3.1 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.6 |
| Totals | 2.8 | 4.9 | 4.7 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.6 |
| | | | | | | | | | | |
| | | - Parket | | | | | | | | |
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| | A. Carlotte | | | : | | | | | | |
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Exhibit P-40M, Budget Item Justification Sheet

| | | INDIVIDUA | INDIVIDUAL MODIFICATION | NOI | | | | | Date | Fet | February 1998 | |
|---|--|---|-----------------------------------|-------------------------|-----------------------|---------------------|------------------------------|--|--------------------------|-------------------|---------------|--------|
| MODIFICATION TITLE: Modular Weapon System MODELS OF SYSTEMS AFFECTED: Date of SYSTEMS AFFECTED: Date of SYSTEMS AFFECTED: Date of SYSTEMS AFFECTED. | Modular Weapon System (M16/M203) TBD1 | (M16/M203) T | гвр1 | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | AND IN HUMAN | v | | | | | | | | | | |
| The modular weapon is a system of mounting rails/methods that allows the custom configuration of M16 Rifles with accessories and ancillary items such as optics, night sights, IR laser pointer, the grenade launcher, back-up sights, etc., based upon mission requirements in the field, without tools. | stem of mounting optics, night sights | rails/methods , IR laser poi | s that allows nter, the gr | the cust enade la | tom conf uncher, b | iguration ack-up | of M16 I sights, et | Rifles wi c., basec | th accesso I upon mis | ories ssion re | quireme | ents |
| | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: | DEVELOPMENT MILI | ESTONES: | | | PLANNED | | | | ACCOMPLISHED | PLISHE | g. | |
| Developmental/Operational Tests Milestone III Production Decision | Fests sion | | | | | | | 3Q95-2Q96 4Q97 | 2Q96 7 | | | |
| First Production Hardware Delivered First Unit Equipped | elivered | | | 3Q98 4Q98 | 80 | | | 9 | | | | |
| Installation Schodule: | | | | | | | | | | | | |
| Pr Yr | FY 1997 | FY | FY 1998 | | FY 1999 | | | FY 2000 | | | FY 2001 | |
| Totals 1 Inputs Outputs | 2 3 | 1 2 | 8 | 1 | 2 | 4 | - | 2 | 4 | - | 2 | 4 |
| FY 2 | FY 2002 | FY 2003 | | FY 2004 | 104 | | FY 2005 | ç, | | T0 | | Totals |
| Inputs | 3 4 | 1 2 3 | 4 | 2 | ေ | 4 | 2 | 8 | 4 Complete | ete | | |
| METHOD OF IMPLEMENTATION: Contract Dates: Delivery Date: | Unit Application FY 1997 Aug 97 FY 1997 Apr 98 | ADMINISTRATIVE LEADTIME: 77 FY 1998 M 8 FY 1998 O | TIVE LEADTI FY 1998 FY 1998 | ME: May 98 Oct 98 | 6 Months | ths | PRODUC FY 1999 FY 1999 | PRODUCTION LEADTIME: FY 1999 Nov 98 FY 1999 Oct 99 | | 12 Months | ths | |

| | | | | | N | IVIDUAL | MODIF | INDIVIDUAL MODIFICATION | | | | | | | | Date | | Februs | February 1998 | |
|--|---------------------------------------|-------|-------|---------------------------------------|---------|---------|---------|-------------------------|---------|---|---------|----|---------|-----|---------|------|-----|--------|---------------|-------|
| MODIFICATION TITLE (Cont): | | ě | dular | Modular Weapon System (M16/M203) TBD1 | Syste | m (M1 | s/M203 |) TBD1 | | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | . [| | | | | | | | | | | | | | | | | | |
| | and Prior | rior | FΥ | FY 1997 | FY 1998 | 866 | FY 1999 | 66 | FY 2000 | 8 | FY 2001 | 10 | FY 2002 | 202 | FY 2003 | 903 | F | 70 | TOTAL | AL |
| | Qty | \$ | Qty | \$ | Qty | €9 | Qty | \$ | Qty | Н | Qty | \$ | Oty | 69 | ģ | 49 | Oty | 69 | ģ | 69 |
| RDT&E | | 1.158 | | | | | | | | | | | | | | | | | | 1.158 |
| PROCUREMENT | | | | | | | | | | | | | | | | | | | | |
| Kit Quantity | | | 3143 | | 1612 | | 4380 | | | | | | | | | | | | 9135 | |
| Installation Kits | | | | | | | _ | | | | | | | | | | | | | |
| Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Equipment | | | | 2.404 | | 1.487 | | 4.038 | | • | | | | | | | | | | 7.929 |
| Equipment, Nonrecurring | | | | | | | | | | | | | | | • | | - | | | |
| Engineering Support | | | | 0.207 | | 0.025 | | 0.215 | | | | | | | | | | | | 0.447 |
| Testing | | | | 0.100 | | | | | | | | | | | | | | | | 0.100 |
| Integrated Logistical Support | | | | 0.050 | | 0.002 | | 0.075 | | | | | | | | | | | | 0.130 |
| Fielding | | | | 0.100 | | 0.032 | | 0.180 | | | | | | | | | | | | 0.312 |
| Other | | | | | | | | | | | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | - | | | | | | | | | | - | | | |
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| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | | | | | | | | |
| EV 1996 & Prior Eant Kits | | | | | | | | | | | | | | | | | | - | | |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | 000 | | 143 | | | | | | | | | | | | 2143 | |
| 1000 - 10 | | | | | 3 | V E | 2 [| | L | | | | | | | | | | 2 4 | |
| FY 1998 Eqpt Kits | | | | | | | /22/ | | 202 | | | | | | | | | | 7101 | |
| FY 1999 Eqpt Kits | | | | | | | | | 4380 | | | | | | | | | | 4380 | |
| FY 2000 Eqpt kits | | | | | | | | - | | | | | | | | | | | | |
| FY 2001 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2003 Eapt kits | | | | | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | | | | | | | | | | | 0, | | | | |
| Total Installment | | | | | 3000 | | 1500 | | 4635 | | | | | | | | | | 9135 | |
| Total Procurement Cost | | | | 2.9 | | 1.5 | | 4.5 | | | | | | | | | | | | 8.9 |
| | | | | | | | | | | | | | | | | | | | | |

| | | INDIVIDUAL MODIFICATION | IFICATION | | Date | 9 | February 1998 | Γ |
|---|---|-------------------------------------|------------------------|------------------------------------|---|----------------------|---------------|-------|
| MODIFICATION TITLE: Close Con | Close Combat Optics (M16) TBD2 | TBD2 | | | | | | |
| MODELS OF SYSTEMS AFFECTED: M16A2 Rifle, M68 Sight Reflex | M16A2 Rifle, M68 Sight | Reflex | | | | | | |
| DESCRIPTION / JUSTIFICATION: | | | | | | | | |
| The Mod Signt will be installed on the MT6AZ Kille | d on the M16A2 Hil | <u>e</u> | | | | | | |
| The Close Combat Optic allows the soldier happening in close proximity to the soldier | ws the soldier to fire to the soldier and ir | e his weapon with nproves hit proba | both eyes op | en allowing gr ht, low light le | to fire his weapon with both eyes open allowing greater awareness of events and other adverse conditions. | ents ther adverse | e conditions. | |
| | | | | | | | | |
| | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | | MILESTONES: | PLANNED | | ACCON | ACCOMPLISHED | | |
| Development/Operational Test Type Classification (LRIP) | + | | | | 1/2Q96 4Q96 | | | |
| Production Contract Award | | | | | 4096 | | | * |
| First Production Hardware Delivered First Unit Equipped | livered | | 2098 | | 1097 | | | |
| | | | | | | | | |
| Installation Schedule: | | | | | | | | |
| Pr Yr Totals | FY 1997 | FY 1998 | 4 | FY 1999 | 4 1 2 3 | 1 | FY 2001 | 4 |
| Inputs Outputs | | | | | | | | |
| 2000 21 | - | 2000 XI | 7000 NJ | - | 1000 VT | 1 | Ė | 1 |
| 1 2 | 3 4 1 | 2 3 4 | - | 3 4 | 1 2 3 4 | Complete | 2 | olais |
| Inputs | | | | | ' | | | |
| OF IMPLEMENTATION: | lication | ADMINISTRATIVE LEADTIME: | EADTIME: | 1 Months | Ş | 9 | Months | |
| Contract Dates: Delivery Date: | FY 1997 Jul 97 FY 1997 Jul 98 | FY 1998 FY 1998 | 38 Jan 98 38 Mar 99 | | FY 1999 Jun 99 FY 1999 Jun 99 | | | |

| | | | | | Z | DIVIDUA | - MODIF | INDIVIDUAL MODIFICATION | | | | | | | | Date | | Februe | February 1998 | |
|----------------------------------|------------|-----------|--------------|-----------|---------|-------------------|----------|-------------------------|-------|-----|------|------|-----|---------|--------|---------|----|----------|---------------|-------|
| MODIFICATION TITLE (Cont): | | S | Close Combat | | ptics (| Optics (M16) TBD2 | BD2 | | | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | | | | | | | | | | | | | | | | | | | | |
| | FY 1996 | 966 | | 150 | | 000 | 1 | 000 | 0000 | 900 | 1000 | , 00 | 2 | 9 | 2 | 000 | 1 | Ç | 10101 | 14. |
| | and Otv | and Prior | Otv 1997 | \68 88 | Š | 2661 × ≥ | Otv 1999 | . (9 | Of v | 8 | O V | 3 49 | O Š | FY 2002 | ž Š | ty 2003 | şö | € | O A | 4 |
| RDT&E | | 1.469 | | | | | | | | | | | | | | | | | | 1.469 |
| PROCUREMENT Kit Clantity | 12090 | | 9361 | | 14840 | | 7520 | | | | | | | | | | | | 43811 | |
| Installation Kits | | | } | | | | | | | | | | | | | | | | | |
| Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Equipment | | 2.353 | | 1.795 | | 2.845 | | 1.504 | | | | | | | | | | | | 8.497 |
| Eng Change Proposal | | | | 0.026 | | | | | | | | | | | | | | | | 0.026 |
| Engineering Support | | 0.337 | | 0.185 | | 0.185 | | 0.139 | | | | | | | | | | | | 0.846 |
| Testing | | | | | | 0.050 | | 0.050 | | | | | | | | | | | | 0.100 |
| Integrated Logistical Support | | 0.030 | | 0.020 | | 0.020 | | 0.020 | | | | | | | | | | | | 0.090 |
| Fielding | | 0.030 | | 0.020 | | 0.020 | | 0.020 | | | | | | | | | | | | 0.090 |
| Other | | | | | | | | | | | | | | | | | | | | |
| Interim Contractor Support | | - | | | | | | | | | | | | | | | | | | |
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| | | | | - | | | | | | | | | | | | | | - | | |
| | | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | | | | | | | 00007 | |
| FY 1996 & Prior Eqpt Kits | | | | | 12090 | | | | | | | | | | | | | | 06021 | |
| FY 1997 Eqpt Kits | | | | | 5 | | 282 | | | | | | | | | | | | 930 | |
| FY 1998 Eqpt Kits | | | | | | | 2770 | | 12070 | | | | | | | | | | 14840 | |
| FY 1999 Eqpt Kits | | | | | | | | | 7520 | | | | | | | | | | 7520 | |
| FY 2000 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2001 Eqpt kits | | | | | | | | | | - | | | | _ | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | 1 | | | | | | | 1 | 1 | 1 | | | | | | | | | |
| Total Installment | | | | | 12601 | | 11620 | | 19590 | 1 | | | | | | | | | 43811 | |
| Total Procurement Cost | | 2.8 | | 2.0 | | 3.1 | | 1.7 | | | | | | | | | | | | 9.6 |

| | | | | | | | | Date: | | | | |
|--|-----------------------------|----------------|--------------------------|------------------------|---------------------------------|------------------------|---------|--|--------------------|------------------|-------------|------------|
| | | Exhibit P-4 | Exhibit P-40, Budget Ite | em Justification Sheet | ntion Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 ftem Nomencfature: | re: | | | | | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles | WPNS & TRKD CMBT | VEHS/2/Weapons | and Other Combat V | enkles | | | 2 | MODIFICATIONS LESS THAN \$2.0M (WOCV-WTCV (GC0925) | SS THAN \$2.0M (WO | CV-WTCV (GC0925) | | |
| Program Elements for Code B Items: | :5 | | | Code: | Other Related Program Elements: | am Elements: | | : | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 68.3 | 2.6 | 1.4 | 9.0 | 1.4 | 1.1 | 1.0 | 1.0 | 1.3 | 1.3 | 0.0 | 80.1 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 68.3 | 2.6 | 1.4 | 9.0 | 1.4 | 1,1 | 1.0 | 1.0 | 1.3 | 1.3 | 0.0 | 80.1 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 68.3 | 2.6 | 1.4 | 9.0 | 1.4 | 1.1 | 1.0 | 1.0 | 1.3 | 1.3 | 0.0 | 80.1 |
| Fiyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |

DESCRIPTION: Provides for modification of Weapons and Other Combat Vehicles with a cost less than \$2.0 Million.

JUSTIFICATION: Funds identified in FY97/FY98 will modify the M198 Howitzer and provide machine gun optic sights for the M249, M60 and M240B Machine Guns. The M198 Howitzer will improve the reliability, availability and maintainability (RAM), handling, equilibrator, durability of parts, a reduction in operator fatigue and increased users' satisfaction. The M198 will have the latest enhancements available to service the currently envisioned battlefield. The optic sight will allow the soldier to identify and engage targets more effectively than the existing iron sighting system.

| Exhibit P. | Exhibit P-40M Budget Item Justification Sheet | em Justifica | ation Sheet | | 0 | Date | | February 1998 | | |
|--|---|--------------|--------------------------------|-----------------------|---------|-----------------|-------------------|---|-----|-------|
| Appropriation / Budget Activity/Serial No. PROCOMBT VEHS / 2 / Weapons and Other Combat Vehicles | ons and Other Combat Ve | ihicles | | P-1 Item Nomenclature | MC | DIFICATIONS LES | S THAN \$2.0M (WO | MODIFICATIONS LESS THAN \$2.0M (WOCV-WTCV) (GC0925) | | |
| Program Elements for Code B tlems | | Code | Other Related Program Elements | m Elements | | | | | | |
| Description | Fiscal Years | | | | | | | | | |
| OSIP NO. Classification | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | TC | Total |
| Howitzer Syste | | | | d | d | d | | | d | |
| TBD1 Operational | 13.8 | 9.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.5 |
| Machine Gun Optics | c | c | + | - | | - | 4 | + | Ċ | 7 |
| I DUZ | 2.0 | 0.0 | | - | 2 | 2: | 5 | | 8 | |
| Totals | 13.8 | 9.0 | 1.3 | 1.1 | 1.0 | 1.0 | 1.3 | 1.3 | 0.0 | 21.5 |
| | | | | | | | | | | |
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| | | | | | | NDIV | IDUAL | INDIVIDUAL MODIFICATION | ICATIO | z | | | | | | ľ | Date | Feb | February 1998 | |
|---|----------------------|----------|---------------------------------------|---------------|--------------|---------|--------------|---------------------------|-----------|---------|---------|----------------|-------|--------------|-----------------------|---------|--|-----------------|---------------|------------|
| MODIFICATION TITLE: | M198 | Howi | M198 Howitzer System Improvement TBD1 | stem | Impro | veme | nt TB(| 7 | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: M198 Howitzer, | SAFFECT | TED: M | 198 Hov | vitzer, A | Medium Towed | Towed | | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | FICATION | <u> </u> | | | | | | | | | | | | | | | | | | |
| The purpose of the Materiel Change (MC) is to improve the reliability of the M198 System, improve the brake system, reduce operator farmer and improve equilibrator adjustment. The areas of improvement were a result of M198 fielded system | e Mater tion of h | iel Ch | ange (| MC) is | s to im | prove | the restor a | eliabili | ty of the | he are | 98 Sy | stem, impro | impro | ve the | e brake | syster | is to improve the reliability of the M198 System, improve the brake system, reduce operator fatigue, rove equilibrator adjustment. The areas of improvement were a result of M198 fielded system | opera ded sv | tor fati | gue, |
| review. Improvements in ram, handling ma expected. | ents in | ram, r | andlin | g mar | euver | ability | , dura | billity c | of part | s, a re | aductic | o ui uc | perat | or fati | gue an | d incre | ineuverability, durability of parts, a reduction in operator fatigue and increased users satisfaction is | rs satis | sfaction | . <u>s</u> |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | US / MAJ | OR DE | VELOP | | MILESTONES: | ONES: | | ۳ | PLANNED | Œ | | | | ACC | ACCOMPLISHED | SHED | | | | |
| Production Contract Awarded | ontract, | Awarc | eq | | | | | | | | | | 1091 | 91 | | | | | | |
| First Production Hardware Delivered | ion Harc | dware | Delive | ired | | | | | | | | | 3091 | _ | | | | | | |
| MFA/MWOFP Negotiated | P Negot | iated | | | | | | | | | | | ဗ | 3091 | , | | | | | |
| First Kit Applied | ed ed | | | | | | | | | | | | | 3091 1098 | 78 | | | | | |
| Collective Evaluation Completed | aluation | Com | pleted | | | | | 4 | 4Q98 | | | | | 5 |) | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | | | | | |
| | Pr Yr | | FY 1997 | 24 | | | FY 1998 | 966 | | | FY 1999 | 666 | | | FY 2000 | 000 | | ш. | FY 2001 | |
| Inputs | Totals 673 | 1 1 | 2 17 | 18 | 4 4 | - | 2 | 8 | 4 | - | 2 | 3 | 4 | | 2 | က | 4 | - | N | 6 |
| Outputs | 673 | 4 | 9 | 17 | 18 | 17 | | - | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | FY 2002 | 32 | | | FY 2003 | 93 | | | FY 2004 | 904 | | | ᇤ | FY 2005 | | _ | 10 | | Totals |
| | - | 2 | 3 | 4 | - | 2 | 3 | 4 | - | 2 | 3 | 4 | - | , 4 | 2 3 | 4 | Complete | 9 | | |
| Inputs | | | | | | | | | | | | | | | | | | | | 739 |
| METHOD OF IMPI EMENTATION: | FNTATIO | 1 | Denot | $\frac{1}{2}$ | 1 | NIMC | TRAT | ADMINISTRATIVE I FADTIME: | DTIME | | | Months | | PROL | PRODUCTION I FADTIME: | I FAD | IME | Months | ths. | |
| Contract Dates: | | | FY 1997 | | C | | | FY 1998 | | : | | | | FY 1999 | 66 | | i | | 2 | |
| Delivery Date: | | ĬL. | FY 1997 | | | | | FY 1998 | _ | | | | | FY 1999 | 66 | | | | | |

| | | | | | N | AUDIVIC | INDIVIDUAL MODIFICATION | :ICATIOI | 7 | | | | | | Date | | February 1998 | | | |
|----------------------------------|-----|-----------|--------|---------------|---------|-------------------------|-------------------------|----------|---------|---|---------|----|---------|----|---------|------|---------------|---|---|-------|
| MODIFICATION TITLE (Cont): | | Σ | 198 Ho | M198 Howitzer | Systen | System Improvement TBD1 | vemen | t TBD1 | | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | 2 | 9004 | _ | | | | | | | | | | | | | | | | | |
| | and | and Prior | F | FY 1997 | FY 1998 | 966 | FY 1999 | 666 | FY 2000 | 8 | FY 2001 | 9 | FY 2002 | 2 | FY 2003 | 3 | 5 | | TOTAL | ہ |
| | Qty | \$ | Qty | \$ | Qty | s | Qty | s | Qty | s | Qty | \$ | Qty | \$ | Oty | \$ | Qty | ₩ | Q Ş | 69 |
| RDT&E PROCUREMENT | | | | | | | | | | | | | | | | | | | | |
| Kit Quantity | 739 | | | | | | | | | | | | | | | | | | 739 | |
| Installation Kits | | | | | | | | | | | | | | | | | | | | |
| Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Equipment | | 0 755 | | | | | | | | | | | | | | | | | | 0 755 |
| Engineering Change Orders | | 1,616 | | | | | | | | | | | | | | | | | | 1616 |
| Data | | | | | | | | | | | | | | | | | | | | |
| Training Equipment | | | | | | | | | | | - | | - | | | | | | | |
| Support Equipment | | | | | | | | | | | - | | | | | | | | | |
| Fielding | | 0.071 | | | | | | | | | | | | | | | | | | 0.071 |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | • | |
| | | | | | | | | | | | | | | | | - | | | | |
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| | | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | | | | | | | | | | | |
| FY 1996 & Prior Eqpt Kits | 673 | 2.388 | 99 | 0.627 | | | | | | | | | | | | | | | 739 | 3.015 |
| FY 1997 Eqpt Kits | | | | | | | | | | _ | | | | | | | | | ••• | |
| FY 1998 Eqpt Kits | | | | | | | | | | | | | - | | | | | | | |
| FY 1999 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 2000 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2001 Eqpt kits | | | | | | | | | | | | | | | | | | | | |
| FY 2002 Eqpt kits | | | | | | | | | | | _ | | | | | | | | | |
| FY 2003 Egpt kits | | | | | | | | | | | | | | | | | | | | |
| TC Equip-Kits | | | | | | | | | | | | | | | | | | | | |
| Total installment | 673 | 2.388 | 99 | 0.627 | | | | | | | | | | | | | | | 739 | 3.015 |
| Total Procurement Cost | | 13.8 | | 0.6 | | | | | - | | _ | | _ | _ | | | L | | | 14.5 |
| | | | | | | | | | | | | | | | | $\ $ | | | | |

| | | QN | VIDUAL | INDIVIDUAL MODIFICATION | CATION | | ı | | ı | l | ١ | Date | | Febru | February 1998 | L |
|---|-------------|-------------|------------------|--------------------------|----------------------|-------------------|-----------------|---------------------|--------|--------------------------|----------------------|-------------------|---|--------------|---------------|--------|
| MODIFICATION TITLE: Machine Gun Optics TI | cs TBD2 | | | | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: M249 Squad Automatic Weapon; M60 Machine Guns, M240B Machine Guns | ad Automati | Weap | n; M60 | Machine | Guns, | M240B | Machine | e Guns | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: | | | | | | | | | | | | | | | | |
| The Machine Gun Optic Program provides an optic (telescopic) sight for the 5.56mm M249 Light Machine Gun and 7.62mm Medium Machine Guns. The optic sight will allow the soldier to identify and engage targets more effectively than the existing iron sighting system. | ides an o | otic (te | lescop nd eng | ic) sigh jage ta | it for th rgets n | ie 5.56 nore e | mm M fective | 1249 Lely tha | ight I | Machin existin | e Gun | and 7. sightin | an optic (telescopic) sight for the 5.56mm M249 Light Machine Gun and 7.62mm Me to identify and engage targets more effectively than the existing iron sighting system. | Mediun n. | n Mac | hine |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT | | MILESTONES: | | | | | | | (| | | | | | | |
| | | 7 | PLANNED | 0 | | A | | ACCOMPLISHED | ED | | | | | | | |
| Development/Operational Tests | | | 3098 | m | | | | | | | | | | | | |
| Production Contract Award | | | 4098 | | | | | | | | | | | | | |
| First Production Hardware Delivered | | | 1099 | 6 | | | | | | | | | | | | |
| First Unit Equipped | | | 2099 | | | | | | | | | | | | | |
| Installation Schedule: | | | | | | | | | i. | | | | | | | |
| Pr Yr FY 1997 | 7 | | FY 1998 | 866 | | | FY 1999 | 6 | - | | FY 2000 | | | ΕĄ | FY 2001 | |
| Inputs 1 2 | £ | - | 2 | 6 | 4 | - | 2 | က | 4 | = | 7 | က | 4 | 2 | | 8 |
| Outputs | | | | | 1 | \dashv | - | | | | | _ | | | | |
| FY 2002 | | FY 2003 | 500 | | | FY 2004 | 4 | | | FY 2005 | 5 | | To | | | Totals |
| 1 2 3 | 4 | 2 | 3 | 4 | | 2 | 8 | 4 | ᅱ | 2 | 8 | 4 | Complete | | | |
| Inputs Outputs | | | | | | | | | | | | | | | | |
| METHOD OF IMPLEMENTATION: Unit Application | cation | ADMIN | STRAT | ADMINISTRATIVE LEADTIME: | OTIME: | | - M | Months | 4 | SODUC | PRODUCTION LEADTIME: | ADTIM | 9 | Months | S | |
| ió | | | | FY 1998 | ¥ | Aug 98 | | | Ĺ | FY 1999 | Jar | Jan 99 | | | | |
| Delivery Date: FY 1997 | | | | FY 1998 | ž | Nov 98 | | | Ĺ | FY 1999 | ő | Oct 99 | | | | |

| | | | | | Z | IVIDUA | - MODIF | INDIVIDUAL MODIFICATION | | | | | | | Date | | | February 1998 | 966 | |
|----------------------------------|-----------|--------|---------------|-------|-------------|--------|---------|-------------------------|---------|-------------|---------|-------|----------|-------|--------------|-----------|-------------|---------------|-------|-------|
| MODIFICATION TITLE (Cont): | | Ma | Machine Gun (| Gun O | Optics TBD2 | 3D2 | | | | | | | | | | | | | | |
| FINANCIAL PLAN: (\$ in Millions) | EV 4006 | 90 | | | | | | | | | | | | | | | | | | |
| | and Prior | rior S | FY 1997 | 1997 | FY 1998 | 866 | FY 1999 | 66 | FY 2000 | 8 | FY 2001 | - | FY 2002 | 2 | FY 2003 | | ဥ | | TOTAL | یا |
| | Q Çţ | 89 | Qty | 49 | Qty | € | Qty | 49 | Qty | Н | Qty | | Oty | Н | Qty 8 | \$ Qty | <u>></u> | €9 | Qty | es- |
| RDT&E | | | | | | | | | | | | | | | | | | - | | |
| Kit Quantity | | | • | | 1718 | | 1378 | | 1214 | | 1191 | • | 1626 | _ | 1625 | | | | 8752 | |
| Installation Kits | | | | | | | | | | | | | | | | | | | | |
| Installation Kits, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Equipment | | | | | | 1.117 | | 968.0 | | 0.789 | | 0.774 | _ | 1.057 | - | 1.056 | | | | 5.689 |
| Equipment, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Engineering Support | | | | | | 0.140 | | 0.143 | | 0.143 | | 0.144 | _ | 0.144 | o | 0.144 | | | | 0.858 |
| Testing | | | | | | 0.050 | | 0.050 | | 0.050 | | 0.050 | | 020 | o | 0.050 | | | | 0.300 |
| Integrated Logistical Support | | | | | | 0.020 | | 0.019 | | 0.020 | | 0.020 | <u> </u> | 0.020 | o | 0.020 | | | | 0.119 |
| Fielding | | | | | | 0.020 | | 0.020 | | 0.020 | | 0.020 | <u> </u> | 0.020 | o | 0.020 | | | | 0.120 |
| Other | | | - | | | | | | | | | | | | <u> </u> | - | | | | |
| Interim Contractor Support | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | <u> </u> | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | - | | | | | | | | | - | _ | |
| FY 1996 & Prior Eqpt Kits | | | | | | | | | | | | | | - | | | | | | |
| FY 1997 Eqpt Kits | | | | | | | | | | | | | | | | | | | | |
| FY 1998 Eqpt Kits | | | | | | | 1350 | | 368 | | | | | | | | | | 1718 | |
| FY 1999 Eqpt Kits | | | | | • | | | | 1010 | | 368 | | | | | | | | 1378 | |
| FY 2000 Eqpt kits | | | | | | | | | | | 1214 | | | | | | | | 1214 | |
| FY 2001 Eqpt kits | | | | | | | | | | | 218 | | 973 | | | | | | 1191 | |
| FY 2002 Eqpt kits | | | | | | | | | | | | | 827 | | 799 | - | | | 1626 | |
| FY 2003 Eqpt kits | | | | | | | | | | | | | | _ | 1001 | _ | 624 | | 1625 | |
| TC Equip-Kits | | | | | | | | | | | | 1 | 1 | 1 | + | - | 1 | 1 | | |
| Total Installment | - | | | | | | 1350 | | 1378 | | 1800 | | 1800 | | 1800 | | 624 | 1 | 8752 | |
| Total Procurement Cost | | | | | | 1.3 | | 1: | | 1.0 | | 1.0 | | 1.3 | _ | 1.3 | | | | 7.1 |
| | | | | | | | | | | | | | | | | | | | | |

| | | Exhibit P-4 | 0, Budget It | Exhibit P-40, Budget Item Justification Sheet | ıtlon Sheet | | | Date: | | February 1998 | | |
|---|------------------|--|--------------------|---|---------------------------------|------------------------|------------|---------------|---|---------------|-------------|------------|
| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 Item Nomenclature: | re: | | | | | |
| PROCUREMENT OF | WPNS & TRKD CMB) | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles | s and Other Combat | Vehicles | | | | ITEMS LESS TH | ITEMS LESS THAN \$2.0M (WOCV-WTCV) (GL3200) | TCV) (GL3200) | | |
| Program Elements for Code B Items: | ij | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 58.0 | 5.0 | 1.2 | 6.0 | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 | 0.0 | 72.6 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 58.0 | 5.0 | 1.2 | 6'0 | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 | 0:0 | 72.6 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 58.0 | 5.0 | 1.2 | 6.0 | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 | 0.0 | 72.6 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| DESCRIPTION: Provides for procurement and assembly of tool/shop sets, small arms, and our mounts. The items are needed by | ovides for pro | curement an | d assembly c | s dods/loot to | ets small arr | ms and oun i | nounts The | items are ne | and hy | | | |

DESCRIPTION: Provides for procurement and assembly of tool/snop sets, small arms, and gun mounts. The items are needed by maintenance personnel to maintain weapons and combat vehicles, and by Active Army, National Guard, Reserve and ROTC units to perform combat and training missions. The tool/shop equipment has multi-applications and is essential to all levels of weapon and combat vehicle maintenance. JUSTIFICATION: Required to achieve and sustain required levels of readiness to units providing maintenance support to all small arms (M16,9mm Pistol, 7.62 Machine Gun, etc.), arillery (M102,M19,M19,M19,M19, etc.) air defense (Vulcan, PIVAD, etc.) special weapons, and fire control (Tanks, etc.) organizations. Small Arms Weapons and mounts are required to support AAO shortages, field replacements and training requirements.

| Exhibit P-5, Weapon WTCV Cost Analysis | | Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT | get Activity/S | Serial No: & TRKD CMBT | | P-1 Line Iter ITEMS LES | P-1 Line Item Nomenclature: ITEMS LESS THAN \$2.0M (WOCV-WTCV) | VOCV-WTCV) | | Weapon System Type: | | Date: Febri | February 1998 |
|---|----|---|----------------|---------------------------|-----------|----------------------------|---|------------|--------------|---------------------|-----------|----------------|---------------|
| | 1 | VEHS / 2 / Weapons and Other Combat | pons and O | ther Combat | | | (GL3200) | | | | | | |
| | ₽ | ŀ | FY 96 | | | FY 97 | | | FY 98 | | | FY 99 | |
| Cost Elements | CD | TotalCost | δ | UnitCost | TotalCost | ğ | UnitCost | TotalCost | QÎ | UnitCost | TotalCost | QÎ OÎ | UnitCost |
| | | \$000 | Each | \$000 | \$000 | Each | 000\$ | \$000 | Each | \$000 | 000\$ | Each | \$000 |
| 1. Shot Gun, 12 Gage G124 | ⋖ | 256 | 256 | _ | 94 | 410 | | 100 | 400 | | 100 | 400 | |
| 2. Shop Equip, Small Arms G337 Repair, Shelter Mtd | ∢ | | | | 158 | 4 | 40 | | | | 304 | 80 | 38 |
| 3. Shop Equip, Artillery Maint, G348 FM Set N | ∢ | | | | 76 | 2 | 38 | | · | | | | |
| 4. Tool Set, Instrument and G371 Fire Control FM | ∢ | 204 | 10 | 20 | 94 | 4 | 24 | 26 | N | 28 | 105 | ro | 21 |
| 5. Shop Set, Small Arms, G385 Field Maint, PCS Set D | ∢ | 110 | N | ည | 91 | α | 46 | 75 | - | 75 | | | |
| 6. Shop Set, Small Arms G723 FM, Basic | ∢ | | | | 14 | - | 4 | | | | 41 | - | 41 |
| 7. XM144 Telescope | ⋖ | 629 | | | | | | | | | | | |
| 8. Tool Set, Battalion Maint G427 | ⋖ | | | | 269 | 29 | 4 | 471 | 70 | 7 | 342 | 98 | 4 |
| 9. Tool Kit, Electronic Sys Maint S380 | ∢ | | | | 103 | 48 | ဖ | 488 | 94 | S | 299 | 75 | 4 |
| | | | | | | | | | | | | | |
| TOTAL | | 1249 | | | 668 | | | 1190 | | | 1164 | | |
| | | | | | | | | | | | | | |

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| | | | | | | | | Date: | | | | |
|--|------------------|--------------------|---|--------------|---------------------------------|------------------------|---------|----------------|--|------------------|-------------|------------|
| | | Exhibit P-4 | Exhibit P-40, Budget Item Justification Sheet | em Justifica | ation Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | al No: | | | | | P-1 Item Nomenclature: | .9: | | | | | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Olher Combat Vehicles | WPNS & TRKD CMBT | VEHS / 2 / Weapons | and Other Combat V | rehicles | | | | PRODUCTION BAS | PRODUCTION BASE SUPPORT (WOCV-WTCV) (GC0050) | /-WTCV) (GC0050) | | |
| Program Elements for Code B Items: | ig | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 723.8 | 10.3 | 6.3 | 4.3 | 6.1 | 5.1 | 4.6 | 4.6 | 4.9 | 4.9 | 0.0 | 774.5 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 723.8 | 10.3 | 6.3 | 4.3 | 6.1 | 5.1 | 4.6 | 4.6 | 4.9 | 4.9 | 0.0 | 774.5 |
| Initial Spares | | | | , | | | | | | | | |
| Total Proc Cost | 723.8 | 10.3 | 5.9 | 4.3 | 6.1 | 5.1 | 4.6 | 4.6 | 4.9 | 4.9 | 0.0 | 774.5 |
| Fiyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| | | | | | 1 | | | | | | | |

Description: This program provides for Provision of Industrial Facilities (PIF). Funds are used to establish modernize, expand and replace facilities owned by the Army and provide Production Support and Equipment Replacement (PSR) and Modernization (MOD) to Government owned equipment used in production, production testing of Weapons and Tracked Combat Vehicles. Also provides funding for the Layaway of Industrial Facilities (LIF) for preservation of equipment and portions of plants which are no longer required for active production.

Justification: The FY99 request includes essential funding for replacement of equipment & instrumentation in production test facilities at Aberdeen, Yuma Proving Grounds, and White Sands Missile Range (WSMR) and layaway of industrial equipment which is excess to production requirements at Rock Island and Watervliet Arsenals.

| FY 1999 | 3.441 | 5.140 |
|---------|----------------|--------|
| FY 1998 | 3.489 | 6.067 |
| FY 1997 | 2.904 | 4.296 |
| FY 1996 | 3.215 2.640 | 5,855 |
| | 무무 니F | TOTALS |
| | | |

| Exhibit P-5, Weapon | | Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT | get Activity/ | Serial No: & TRKD CMBT | | 2-1 Line Item PRODUCT | P-1 Line Item Nomenclature: PRODUCTION BASE SUPPORT (WOCV- | ORT (WOCV- | | Weapon System Type: | | Date: Febr | February 1998 |
|--|----|---|---------------|---------------------------|-----------|--------------------------|--|------------|-------|---------------------|-----------|---------------|---------------|
| WICY COST Alialysis | | VEHS / 2 / Weapons and Other Combat | apons and C | ther Combat | | | WTCV) (GC0050) | 0) | | | | | |
| WTCV | ٥ | | FY 96 | | | FY 97 | | | FY 98 | | | FY 99 | |
| Cost Elements | CD | TotalCost | Qfy | UnitCost | TotalCost | Oty | UnitCost | TotalCost | Oty | UnitCost | TotalCost | Oth | UnitCost |
| | | 000\$ | Each | \$000 | 000\$ | Each | \$000 | 000\$ | Each | \$000 | 000\$ | Each | \$000 |
| 09X5263 MOD, Aberdeen Proving Ground Provides funds to replace, modernize and upgrade equipment and instrumentation used in production testing of Wpns & Trkd Cmbt Vehs. Upgrading will be performed on automotive performance test equipment, vehicle dynamics, high speed imaging, interior exterior ballistics support inst, and toxic fumes instrumentation. | | \$1.360 | | | \$1.068 | | | \$1.470 | | | \$1.472 | | |
| 09X5268 MOD, Yuma Proving Grounds Provides funds to replace, modernize and upgrade equip/instrumentation used in production testing of WTCV. | | \$1.214 | | | \$0.966 | | | \$1.480 | | | \$1.430 | | |
| 09X5269 PSR, White Sands Missile Range Provides funds to replace, modernize and upgrade equip/instrumentation used in production testing at WSMR. | | \$0.641 | | | \$0.870 | | | \$0.539 | | | \$0.539 | | |
| 69X7667 LIF, Rock IsI & Watervliet Arsenal Provides funds for Layaway and Redistribution of Government-Owned equipment and preservation of equipment to include portions of plants which are no longer required for active production, but must be retained for future use. Also provides for plant clearance/preparation of equipment to be excessed. | | \$2.640 | | | \$1.392 | | | \$2.578 | | | \$1.699 | | |
| TOTAL | | \$5.855 | | | \$4.296 | | | \$6.067 | | | \$5.140 | | |

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| | | Exhibit P-40. Budget I | | tem Justification Sheet | tion Sheet | | | Date: | | Fahrian 1098 | | |
|--|------------------|------------------------|--------------------|-------------------------|---------------------------------|------------------------|------------------|-----------|----------------------------------|----------------|-------------|------------|
| | | | | | | | | | - | acer dimension | | |
| Appropriation / Budget Activity/Sertal No: | 1 No: | | | | | P-1 Item Nomenclature: | ī 0 : | | | | | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles | IPNS & TRKD CMBT | VEHS/2/Weapons | and Other Combat V | ehicles | | | | INDUSTRIA | INDUSTRIAL PREPAREDNESS (GC0075) | (GC0075) | | |
| Program Elements for Code B Items: | | | | Code: | Other Related Program Elements: | am Elements: | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 37.2 | 6.7 | 5.3 | 5.1 | 5.6 | 4.0 | 4.5 | 4.4 | 5.1 | 4.8 | 0.0 | 82.5 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 37.2 | 6.7 | 5.3 | 5.1 | 9.6 | 4.0 | 4.5 | 4.4 | 5.1 | 4.8 | 0.0 | 82.5 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 37.2 | 6.7 | 5.3 | 5.1 | 5.6 | 4.0 | 4.5 | 4.4 | 5.1 | 4.8 | 0.0 | 82.5 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |

DESCRIPTION: This program provides funding to retain, protect, and maintain laidaway reserve industrial plants and equipment. Costs include grounds, utilities, fire and guard protection. Also includes funding for condition assessments of laidaway facilities and costs to rehabilitate equipment to useable condition.

JUSTIFICATION: The FY99 request supports the equipment and facilities at Rock Island & Watervliet Arsenals. It includes the overhead cost attributed to the laidaway portions of the Arsenal. Funds also support some of the retention, maintenance and the cost for guard protection at the facilities which are not being utilized.

| Exhibit P-5, Weapon WTCV Cost Analysis | | Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat | get Activity/ F OF WPNS abons and C | Serial No: & TRKD CMBT Wher Combat | | P-1 Line Item INDUSTRI/ | P-1 Line Item Nomenclature: INDUSTRIAL PREPAREDNESS (GC0075) | ESS (GC0075) | 3 | Weapon System Type: | | Date: Febru | February 1998 |
|---|---|---|---|--|-----------|----------------------------|---|--------------|-------|---------------------|-----------|----------------|---------------|
| WTCV | ₽ | L | FY 96 | | | FY 97 | | | FY 98 | | | FY 99 | |
| Cost Elements | 8 | TotalCost | | UnitCost | TotalCost | Q Qfy | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Qty | UnitCost |
| | | | Each | \$000 | 000\$ | Each | 000\$ | \$000 | Each | 000\$ | 000\$ | Each | 000\$ |
| 49X2100 Plant-Equip Storage, SEAD Provided for storage and maintenance of equipment which was retained at Seneca Army Depot (SEAD) to meet future production requirements. | | \$1.049 | | | \$0.108 | | | | | | | | |
| 49X4290 Ret & Maintenance - Facilities Provides for storage of equipment for future production at Rock Island and Watervliet Arsenals. Also funds for ground maint., fire and guard protection for inactive portions. | | \$2.182 | | | \$2.182 | | | \$2.761 | | | \$0.502 | | |
| 69X7670 Ret & Maintenance - Plants/Equip. Provides for overhead costs attributed to laidaway portions of Watervliet & Rock Island Arsenal. Also funds storage and maintenance costs of equipment which has been laidaway for future production. | | \$2.052 | | | \$2.778 | | | \$2.879 | | | \$3.457 | | |
| TOTAL | | \$5.283 | | | \$5.068 | | | \$5.640 | | | \$3.959 | | |

| | | Exhibit P-4 | 0, Budget Ite | Exhibit P-40, Budget Item Justification Sheet | ition Sheet | | | Date: | | February 1998 | | |
|--|------------------|--------------------|--------------------|---|---------------------------------|-----------------------|---------|------------|--|---------------|-------------|------------|
| | | | | | _ | O & Home Momentalists | | | | | | |
| Appropriation / budget Activity/Senai No. | H NO: | | | | | r-i item Nomercialu | ė | | | | | |
| PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vehicles | VPNS & TRKD CMBT | VEHS / 2 / Weapons | and Other Combat V | /ehicles | | | | SMALL ARMS | SMALL ARMS (SOLDIER ENH PROG) (GC0076) |)G) (GC0076) | | |
| Program Elements for Code B Items: | | | | Code: | Other Related Program Elements: | ım Elements: | | | | | | |
| | | | | | | | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 0.0 | 0.0 | 2.4 | 5.3 | 4.1 | 5.2 | 5.3 | 3.6 | 0.3 | 2.0 | 0.0 | 28.3 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 0.0 | 0.0 | 2.4 | 5.3 | 4.1 | 5.2 | 5.3 | 3.6 | 0.3 | 2.0 | 0.0 | 28.3 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 0.0 | 0.0 | 2.4 | 5.3 | 4.1 | 5.2 | 5.3 | 3.6 | 0.3 | 2.0 | 0.0 | 28.3 |
| Fiyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |

and a mount for firing the M249 Squad Automatic Weapon (SAW) and M60 Machine Gun from the M998 HMMWV and a mount for firing the M249 from the M1025/1026 DESCRIPTION: This program provides small arms equipment for the soldier, a HMMWV Mount, Dual Mount. The HMMWV Mount provides the soldier with a pedestal HMMWV. The Dual Mount can be used in both the vehicular (Armament HMMWV) and ground mount application for the MK19 Grenade Machine Gun (GMG) and M2 Heavy Barrel Machine Gun.

the M1025/1026 HMMWV arises. The Dual Mount will be fielded to scout platoons enabling them to install or switch weapons quickly in the event one vehicle goes down. current MK64 system allowing for bold and accurate traverse and elevation, further range (elevation) for the MK19, recoil attention of the M2 Machine Gun and capability several non-standard and possibly unsafe methods of mounting weapons on the M998. This program will provide a standard, supportable weapon mount. Military Police and certain infantry units currently mount the M60 Machine Gun on the M1025/1026. As the M60 is replaced by the M249 Machine Gun the need to mount the M249 on JUSTIFICATION: Certain applications of the M998 HMMWV require that weapons be displayed and be available quickly for enemy confrontation. The field has devised In addition, procurement quantities have been increased to allow fielding to Infantry Anti-Armor and Military Police units. The system corrects the shortcomings of the for range card preparation.

| Exhibit P-5, Weapon WTCV Cost Analysis | | Appropriation/ Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT | get Activity/? OF WPNS | Serial No: & TRKD CMBT | | P-1 Line Item SMALL A | P-1 Line Item Nomenclature: SMALL ARMS (SOLDIER ENH PROG) | ENH PROG) | > | Weapon System Type: | | Date: Febru | February 1998 |
|--|----------|---|---------------------------|---------------------------|------------------|--------------------------|--|-----------|-------|---------------------|------------|----------------|---------------|
| sisting 1500 ASIM | 1 | VEHS / 2 / Weapons and Other Combat | pons and O | ther Combat | | | (GC0076) | | | | | 30,71 | |
| WTCV | <u> </u> | | FY 96 | | | FY 97 | | | FY 98 | | | FY 99 | |
| Cost Elements | CD | ± | Qty | UnitCost | TotalCost | Oty | UnitCost | TotalCost | Ö | UnitCost | TotalCost | O O | UnitCost |
| | | 000\$ | Each | G | \$000 | Each | () | \$000 | Each | € | \$000 | Each | () |
| 1. Hardware MK93 MOD 1 DUAL MOUNT Dual Mount - New Contract | | 1600 | 1029 | 1555 | 221 | 103 | 2146 | | | | 2731 | 1241 | 2201 |
| HMMWV M249 Mount M998 (Quantity) | | 197 | 120 | 1642 | 1254 | | 1900 | 1583 | 099 | 2398 | | | |
| HMMWV Mount M1025/1026 (Quantity) | | 36 | 80 | 450 | 099 | 1320 | 200 | 583 | 1740 | 335 | 902 | 2550 | 355 |
| MK93 MOD1 (ECP) | | | 4.445.4 | | | | | | | | 390 | ,, | |
| 2. ESIP Dual Mount HMMWV M249 Mount | | 225 | | | 459 398 | | | 560 | | | 270 250 | | |
| 3. Testing Dual Mount HMMWV M249 Mount | | 50 | | | 450 | | | 550 | | | 50 | | |
| Integrated Logistics Support Dual Mount HMMWV M249 Mount Materiel Release/Engineering Studies | | 25 47 53 | | | 20 153 293 | | | 50 | | | 200 | | |
| 5. Fielding HMMWV M249 Mount | | | | | 130 | | · · · · · · · · · · · · · · · · · · · | 230 | | | 230 | | |
| TOTAL | | 2350 | | | 5338 | | | 4093 | | | 5233 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| Exhibit I | Exhibit P-5a, Budget Procurement History and Planning | listory ar | d Planning | | | | | Date: | February 1998 | 8 |
|---|---|--------------------------------|-----------------|------------------------------|---------------------------|---|--|------------------------|------------------------|-------------------|
| Appropriation / Budget Activity/Serial No: PROCUREMENT OF WPNS & TRKD CMBT VEHS / 2 / Weapons and Other Combat Vahicles | | Weapon System Type: | п Туре: | - | 2-1 Line Item ! | P-1 Line Item Nomenclature: SMALL ARMS | omenciature: SMALL ARMS (SOLDIER ENH PROG) (GC0076) | PROG) (GC | (9/00% | |
| WBS Cost Elements: Fiscal Years | Contractor and Location | Contract Method and Type | Location of PCO | Award Date Of First Delivery | Date of First Delivery | QTY Each | Unit Cost | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| DUAL MOUNT/FY96 | Fraser Maunfacturing Corp | C/FFP | ACALA | May-96 | Jan-98 | 1029 | 1555 | Yes | Yes | |
| DUAL MOUNT/FY97 DUAL MOUNT/FY97 New Contract | Fraser Maunfacturing Corp | C/FFP | ACALA | May-97 Sep-97 | Jul-98 | 366 | 2146 | | | |
| HMMWV M249 MOUNT/FY96 M6 Pedestal | Ramo Manufacture Inc. Nashville, Tn | C/FFP | ARDEC | 96-Inc | Apr-97 | 120 | 1642 | Yes | 2 | |
| M197 | Nautic-All | C/FFP | ARDEC | Aug-96 | Mar-97 | 200 | 450 | | | |
| HMMWV M249 MOUNT/FY97 M6 Pedestal | Ramo Manufacture Inc. Nashville, Tn | C/FFP (Option) | АВРЕС | Sep-97 | Feb-98 | 099 | 1900 | Yes | 8 | |
| M197 Mount | Ma-Tech Inc. Hebron, Va | C/FFP | ARDEC | Sep-97 | Feb-98 | 2005 | 200 | | | |
| HMMWV M249 MOUNT/FY98 M6 Pedestal | Ramo Manufacture Inc. Nashville, Tn | C/FFP (Option) | ARDEC | Mar-98 | Jan-99 | 099 | 2064 | | | |
| M197 Mount | Ma-Tech Inc, Hebron, Va | SS/8A | ACALA | 96-unf | Dec-98 | 2400 | 335 | | | Jan-98 |
| HMMWV M249 MOUNT/FY99 M197 Mount | Ma-Tech Inc, Hebron, Va | C/FFP | C/FFP ACALA | Jan-99 | Dec-99 | 2550 | 355 | | | |
| Dual Mount/FY99 | TBS | C/FFP | ACALA | Jan-99 | Jan-00 | 1241 | 2201 | | | |
| | 150 | | | | | | | | | |
| REMARKS: | | | | | | | |] | 1 | |

| | | | | | | | | Date: | | | | |
|--|------------------|---|-------------------------|-------------------------|---------------------------------|------------------------|---------|--------------|---|---------------|-------------|------------|
| | | Exhibit P-4 | Exhibit P-40, Budget It | tem Justification Sheet | ation Sheet | | | | | February 1998 | | |
| Appropriation / Budget Activity/Serial No: | I No: | | | | | P-1 Item Nomenclature: | :0: | | | | | |
| PROCUREMEN | T OF WPNS & TRKD | PROCUREMENT OF WPNS & TRKD CMBT VEHS / 3 / Spares and Repair Part | ares and Repair Pai | ths. | | | | SPARES AND I | SPARES AND REPAIR PARTS (WTCV) (GE0150) | TCV) (GE0150) | | |
| Program Elements for Code B Items: | | | | Code: | Other Related Program Elements: | am Elemenis: | | | | | | |
| | Prior Years | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | To Complete | Total Prog |
| Proc Oty | | | | | | | | | | | | |
| Gross Cost | 0.0 | 0.0 | 25.9 | 19.9 | 20.2 | 23.2 | 26.4 | 27.9 | 35.3 | 37.3 | 0.0 | 216.1 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 0.0 | 0.0 | 25.9 | 19.9 | 20.2 | 23.2 | 26.4 | 27.9 | 35.3 | 37.3 | 0.0 | 216.1 |
| Initial Spares | | | | | | | | | | | | |
| Total Proc Cost | 0.0 | 0.0 | 25.9 | 19.9 | 20.2 | 23.2 | 26.4 | 27.9 | 35.3 | 37.3 | 0.0 | 216.1 |
| Fiyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |

Description: Provides for procurement of spares to support initial fielding of new or modified end items.
Justification: The funds in this account procure depot level reparable (DLRs) secondary items from the Supply Management, Army (SMA) revolving fund (formally Army Stock Fund). To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:

| System | FY 1996 | FY 1997 | FY 1998 | FY 1999 |
|-------------|---------|---------|----------|---------|
| GE0161 M1A2 | 17.1 | 9.5 | 13.7 | |
| GE0163 BFVS | 4.9 | 2.3 | ci. | |
| GE0167 M109 | 2.4 | 6.4 | 3.6 | |
| GE0171 IRV | 1.6 | 2.0 | œί | |
| GEO173 C2V | | | <u>ه</u> | 2.5 |
| GE0177 HAB | | | ο. | 6. |
| Total | 25.9 | 19.9 | 20.2 | 23.2 |

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

APPROPRIATION LANGUAGE

and private plants, and the land necessary therefore, for the foregoing purposes, and such lands and interests therein, may be appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment including ordnance, spare parts, and accessories therefore: specialized equipment and training devices; expansion of public acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, layaway; and other expenses necessary for the foregoing purposes; \$1,433,608 in fiscal year 1999 to remain available for For construction, procurement, production, and modification of weapons and tracked combat vehicles, equipment; obligation until September 30, 2001.

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

SECTION 3

COMPARISON OF PROGRAM REQUIREMENTS AND FINANCING

Comparison of FY1998 program requirements as reflected in the FY1998 Budget Estimate with FY1998 program requirements as shown in the FY1999 Budget Estimates. Comparison of FY1998 financing as reflected in the FY1998 Budget Estimate with FY1998 financing requirements as shown in the FY1999 Budget Estimates.

Comparison of FY 1997 program requirements as reflected in the FY 1998 Budget Estimate with FY 1997 program requirements as shown in the FY 1999 Budget Estimates. Comparison of FY1997 financing as reflected in the FY1998 Budget Estimate with FY 1997 program requirements as shown in the FY1999 Budget Estimates.

COMPARISON OF FY 1998 PROGRAM REQUIREMENTS AS REFLECTED IN THE FY 1998 BUDGET ESTIMATE WITH THE FY 1998 PROGRAM REQUIREMENTS AS SHOWN IN THE FY 1999 BUDGET ESTIMATE (In Thousands of Dollars)

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

| Appropriation Procurement of Weapons and Tracked Combat Vehicles, Army | Req | FY 1998 Requirements Per FY1998 Budget Estimate | FY 1998 Requirements Per FY1999 Budget Estimate | Increase (Decrease) |
|---|-------|--|--|------------------------|
| Activity 1 - Tracked Combat Vehicles | | 995,854 | 1,199,918 | 204,064 |
| Activity 2 - Weapons & Other Combat Vehicles Activity 3 - Spares and Repair Parts | | 492,31 20,622 | 70,748 20,199 | 21,517 (423) |
| | TOTAL | 1,065,707 | 1,290,865 | 225,158 |

EXPLANATION BY ACTIVITY

Sustainment (+\$110,000), FAASV (+\$40,000), Carrier Mods (+\$20,000), Howitzer 155mm (+\$56,000), Improved Recovery Vehicle (+\$4,000), as well as pro rata adjustments for Sections 8043, 8106, 8041 and Congressionally-directed economic Activity 1 - Tracked Combat Vehicles: The net increase resulted from Congressional adjustments to Bradley Base assessments (-\$25,936).

Machine Gun (+\$15,000), MK19-3 Grenade Launcher (+\$8,000) as well as pro rata adjustments for Section 8043, 8106, 8041 Activity 2 - Weapons and Other Combat Vehicles: The increase resulted from Congressional adjustments to Armored and Congressionally-directed economic assumptions (-\$1483).

Activity 3 - Spares and Repair Parts: The decrease resulted from pro rata adjustments for Section 8043 and 8106 and Congressionally-directed economic assumptions (-\$423)

AS REFLECTED IN THE FY 1998 FINANCING AS REFLECTED IN THE FY 1998 BUDGET ESTIMATE WITH THE FY 1998 FINANCING AS SHOWN IN THE FY 1999 BUDGET ESTIMATE (In Thousands of Dollars)

| Appropriation Procurement of Weapons and Tracked Combat Vehicles, Army | FY1998 Financing Per FY1998 Budget Estimate | FY1998 Financing Per FY1999 Budget Estimate | Increase or (Decrease) |
|--|--|--|------------------------------|
| Program Requirements (Total) Program Requirements (Service Account) Program Requirements (Reimbursable) Less: Anticipated Reimbursements | 1,244,707 | 1,342,565 | 97,858 |
| | 1,065,707 | 1,290,865 | 225,158 |
| | 179,000 | 51,700 | (127,300) |
| | (179,000) | (51,700) | (127,300) |

| | 1,065,707 |
|------------------|---------------|
| | |
| RIDGET AITHORITY | Appropriation |
| RIDCET A | Appro |

1,290,865

COMPARISON OF FY1997 PROGRAM REQUIREMENTS AS REFLECTED IN THE FY1998 BUDGET ESTIMATE WITH THE FY1997 PROGRAM REQUIREMENTS AS SHOWN IN THE FY1999 BUDGET ESTIMATE (In Thousands of Dollars)

| Increase or (Decrease) | -48,730 | -273 | -397 | -49,400 |
|--|--------------------------------------|---|--------------------------------------|-----------|
| FY 1997 Requirements Per FY1999 Budget Estimate | 1,295,042 | 104,130 | 19,883 | 1,419,055 |
| FY 1997 Requirements Per FY1998 Budget Estimate | 1,343,772 | 104,403 | 20,280 | 1,468,455 |
| Appropriation Procurement of Weapons and Tracked Combat Vehicles, Army | Activity 1 - Tracked Combat Vehicles | Activity 2 - Weapons and Other Combat Vehicles | Activity 3 - Spares and Repair Parts | TOTALS |

EXPLANATION BY ACTIVITY

Activity 1 - Tracked Combat Vehicles - The decrease resulted from Acquisition Workforce Adjustments (-\$549), inflation adjustments (-\$4,561) reprogramming of the Armored Combat Earthmover to OPA (-\$50,952), reprogramming of Linebacker from Missiles (+\$7,100) and below threshold reprogrammings (+\$232).

Activity 2 - Weapons and Other Combat Vehicles - The decrease resulted from inflation adjustment (-\$367) and below threshold reprogrammings (-\$93).

Activity 3 - Spares and Repair Parts - The decrease resulted from inflation adjustment (-\$72) and below threshold reprogrammings (-\$325).

AS REFLECTED IN THE FY1997 FINANCING AS REFLECTED IN THE FY1998 BUDGET ESTIMATE WITH THE FY1997 FINANCING AS SHOWN IN THE FY1999 BUDGET ESTIMATE SUMMARY OF REQUIREMENTS In Thousands of Dollars)

| Appropriation Procurement of Weapons and Tracked Combat Vehicles, Army | FY1997 Financing Per FY1998 Budget Estimate | FY1997 Financing Per FY1999 Budget Estimate | Increase or (Decrease) |
|--|--|--|------------------------------|
| Program Requirements (Total) Program Requirements (Service Account) Program Requirements (Reimbursable) Less: Anticipated Reimbursements | 1,603,055 1,468,455 134,600 (134,600) | 1,553,655 1,419,055 134,600 (134,600) | 49,400 (49,400) 0 |

| | 1,419,055 |
|------------------|---------------|
| | 1,468,455 |
| BUDGET AUTHORITY | Appropriation |